

## ACCESS SERVICE

7. Special Access Service7.1 General

Special Access Service provides a transmission path to connect customer designated premises\*, directly, through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

\* Telephone Company Centrex CO and CO-like switches are considered to be a customer designated premises for purposes of this tariff.

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7. Special Access Service7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or 50 to 15000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 Mbps.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Detailed descriptions of each of the channel types are provided in 7.5 through 7.11 following.

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps and 44.736 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.7 and 7.11 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.2.1 (C) following.

For example, a customer may order a 44.736 Mbps High Capacity channel from a customer designated premises to a Telephone Company hub for multiplexing to twenty-eight (28) 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions

For the purposes of ordering, there are seven categories of Special Access Service. These are:

- Metallic (MT)
- Telegraph Grade (TG)
- Program Audio (AP)
- Video (TV)
- Voice (VG)
- Digital Data (DA)
- High Capacity (HC)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages and optional features and functions are described in this section. Channel interfaces are described in 15.3 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed between hubs, or between a customer designated premises and a WATS Serving Office.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions Cont'd

- (A) Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. The letter "w" following the two letter code indicates the technical specifications package for a voice grade Special Access Service used in the provision of WATS or WATS-type service using a Telephone Company designated WATS Serving Office. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.
- (B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible interfaces. Only certain channel interfaces are compatible. These are set forth in 15.3 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

- (D) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.
- (F) All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-NPL-000335
	PUB 41004, Table 4
Program Audio	TR-NPL-000337
Video	TR-NPL-000338
Digital Data	TR-NPL-000341, Bellcore PUB 62310
	AT&T PUB 62310, INC Bulletin CB-INC-100
High Capacity	PUB 62411
	TR-NPL-000342

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (WSO).

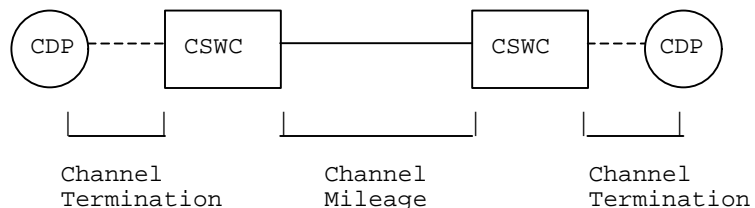
Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

A Special Access Surcharge, as set forth in 7.3 following and a Message Station Equipment Recovery Charge, as set forth in 7.4 following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises (CDP) located 15 miles apart. The service is provided with C-Type conditioning.

CDP - Customer Designated Premises  
CSWC - Customer Serving Wire Center



Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage (1 section, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations)
- C-Type Conditioning Optional Feature

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

If one of the Customer Designated Premises is an Expanded Interconnection Location:

- One Channel Termination and one Cross-connect are applicable rate elements.



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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable)

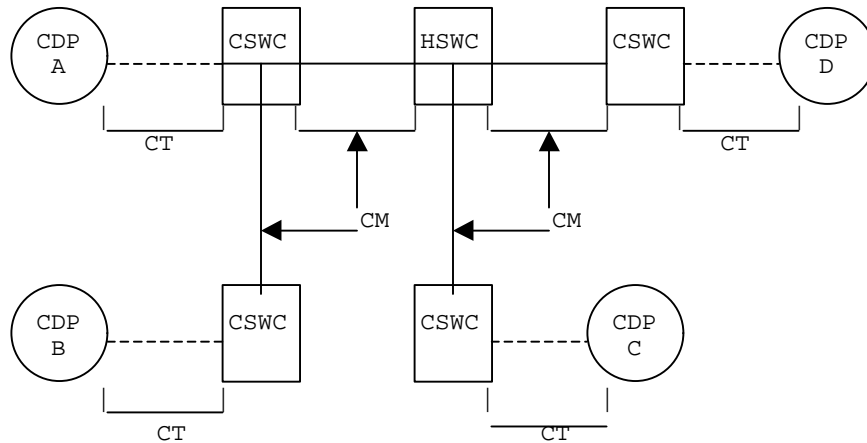
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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

The Special Access Surcharge, as set forth in 7.3 following, and a Message Station Equipment Recovery Charge, as set forth in 7.4 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.

CDP - Customer Designated Premises  
HSWC - Hub Serving Wire Center  
CSWC - Customer Serving Wire Center



Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (4 sections, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations per section)
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)).

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test at the time of installation, the following parameters:

- (A) For Voice Grade analog services, acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic, Telegraph, Program Audio, and Video) and for digital services (i.e., Digital Data and High Capacity) service, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in 13.3.2 following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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7. Special Access Service (Cont'd)7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and functions (described in 7.2.1(C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path to each customer designated premise. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any.

The signaling capability itself is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

For DS3 High Capacity Service, the Channel Termination rates are made up of the DS3 Capacity Interface rate and the DS3 Channel Installed rate. The Capacity Interface rate is dependent upon the capacity ordered (i.e., Capacity Interface of 1, 3, 6 or 12) and is applicable at each customer designated premises. The capacity ordered is the maximum number of DS3 services that can be terminated on a given service at the customer designated premises (e.g., a capacity of 3 can terminate 1, 2, or 3 DS3 services). One DS3 channel installed rate applies per customer designated premises at which the channel is terminated for each DS3 channel that is ordered. These charges will apply even if the customer designated premises and the serving wire center are collocated in a telephone company building.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility.

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. When the Channel Mileage Facility is zero (i.e., co-located serving wire centers), neither the Channel Mileage Facility nor the Channel Mileage Termination rate will apply.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.5 through 7.11 following.

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7 Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30 day period will be charged the daily rate, not to exceed an amount equal to the monthly rate. For each subsequent day or part day, a charge equal to 1/30th of the monthly rate shall apply.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in each channel type as a nonrecurring charge for the Channel Termination.

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.2.2 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service, Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service, except under those conditions as set forth in 2.1.2(A) preceding.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name when the change of name is not the result of a transfer or change of ownership or responsibility,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification,

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the channel termination or will apply. The charge(s) will apply only for the location(s) that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.
- For all other changes, including the addition of an optional feature or function without a separate nonrecurring charge, a charge equal to a channel termination or cross-connect nonrecurring charge will apply. Only one such charge will apply per service, per change.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.3 Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all Special Access services except part-time Video and Program Audio services and DS3 High Capacity Service is one month. The minimum service period for part-time Video and Program Audio services is one day (i.e., a continuous 24-hour period, not limited to a calendar day). The minimum service period for DS3 High Capacity Service is twelve months.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Telephone Company hub, two Telephone Company hubs or between the serving wire center associated with a customer designated premises and a WATS serving office. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., customer designated premises serving wire center to hub, hub to hub and/or hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to do so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity. For example, a DS1 channel is de-multiplexed to 24 individual Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

The Telephone Company will designate hubs for Video and Program Audio Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 7.8 and 7.9 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable.

When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio services as needed between that hub and

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

7.2.7 Shared Use Analog and Digital High Capacity Services

Shared use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/demultiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as shared use.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility.

When Special Access Service is provided utilizing a channel of the shared use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Shared Use Analog and Digital High Capacity Services (Cont'd)

type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/672nd for a per DS3 or DS3 capacity of 1, 1/2016th for a DS3 capacity of three, etc.).

Switched Access Service rates and charges, as set forth in 6.8 preceding, will apply for each channel that is used to provide a Switched Access Service. Additionally, the Switched Access Service Entrance Facility, Direct-Trunked Transport, and Multiplexing charges, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service channels to the total number of Voice Grade channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans

There are two High Capacity Optional Rate plans; a Term Discount plan and a Capacity Discount plan.

The Term Discount plan applies to Special Access DS3 High Capacity Service Channel Termination, Channel Mileage Facility and Channel Mileage Termination monthly rates, as set forth following. The amount of the discount differs based on the length of the service commitment period selected by the customer.

Discounts for the Term Discount plan are only applied to High Capacity Service provided a customer within the same state and LATA by the same telephone company.

Discounts for the Capacity Discount plan are only applied to Special Access DS3 High Capacity Service Channel Termination monthly rates as set forth in 7.11.6 following.

The minimum service period on a monthly rate basis is one month for DS1 service and twelve months for DS3 service.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts

DS3 High Capacity Special Access Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 36 months (3 years) or 60 months (5 years).

The minimum service period for all Term Discount plans is twelve months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customers that subscribe to the Term Discount plan for 36 or 60 months, the Term Discount Rates as set forth in 7.11.6 following will be frozen from Company initiated increases, for the entire discount period at the rates in effect at the beginning of the term Discount period.

If a Term Discount rate decrease occurs during the term of an existing Term Discount plan, the decreased rate will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount Plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

To be included in a Service Term Discount plan, all eligible High Capacity rate elements must be ordered for the same commitment term (i.e., all 36 months or all 60 months) and with the same service date. When additional capacity is subsequently added, it will be available only on a month-to-month basis unless the discount period of the entire service is upgraded.

Eligible DS3 High Capacity rate elements are those Channel Terminations, Channel Mileage Facility and Channel Mileage Terminations provided to a customer within the same state and LATA by the same telephone company.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts (Cont'd)(1) Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring Channel Termination nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a 36-month commitment period may be upgraded to a new 36-month or 60-month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all High Capacity Service that is upgraded.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts (Cont'd)(2) Upgrades in Capacity (DS1 to DS3)

A new minimum service period applies to all upgrades. Channel Termination nonrecurring charges for an equivalent channel capacity of the existing services being upgraded to the higher speed service will not be assessed. For example, 30 DS1 Services are being upgraded to DS3 Service. A capacity of 3 is installed at the customer's request. A total of 2 DS3 Channel rate elements will be installed without Channel Termination nonrecurring charges being assessed as it will require 2 DS3 Channel rate elements to provide the equivalent channel capacity of the existing services. Channel Termination nonrecurring charges will not apply to the upgraded lower speed services placed on the higher speed service if requested at the same time as the upgrade request. Channel Termination nonrecurring charges will apply for capacity that exceeds the existing equivalent channel capacity.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(3) Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period.

Additionally, discontinuance charges of fifty percent of the total undiscounted monthly DS3 charges will apply to the remaining portion of the discount service term.

Should the customer choose to discontinue service ordered under a Term Discount plan after the minimum service period but before the completion of the discount period, discontinuance charges will apply. Discontinuance charges of fifty percent for DS3 Service, of the total undiscounted monthly charges will apply to the remaining portion of the discount period. For example, a customer has a DS3 Service which it chooses to discontinue after 33 months into a 60-month service term. The discontinuance charge would be 0.50 times 27 months times the undiscounted monthly rate for that service.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts

DS3 High Capacity Service may also be ordered at discounted rates in capacities of 3, 6 and 12 systems under a Capacity Discount Plan. Capacity Discounts apply only to DS3 Channel Terminations (i.e., DS3 Capacity Interfaces and DS3 Channels Installed). DS3 Capacity Discounts may be ordered as part of, or separate from Term Discount plans. When ordered in conjunction with Term Discount plans, the DS3 Channel Terminations must all be ordered under the same month-to-month rate or Term Discount plan with the same service period and service date.

For DS3 High Capacity Channel Terminations the Capacity Interface must be ordered before or in conjunction with an associated DS3 Channel Installed. In addition, the Capacity Interface can not be disconnected until all of the DS3 Channels Installed are disconnected.

High Capacity Channel Mileage Facility and Channel Mileage Termination charges will apply as required Per DS3 Channel Installed. Capacity Discounts will not apply to these rate elements.

Capacity Discounts will only apply on DS3 Channel Terminations ordered between a serving wire center and customer location, over the same route. Channel Terminations associated with facilities provided between the same serving wire center and customer location via a second or alternate route will not be included as part of the same Capacity Discount plan as the primary route.

The minimum service period for all Capacity Discount plans is twelve months.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts (Cont'd)(1) Upgrades in DS3 Capacity Discounts

Services rated under the DS3 monthly rate plan may be upgraded to a Capacity Discount Plan at any time, without incurring Channel Termination nonrecurring or discontinuance charges for existing services.

Customers with a capacity of 1, 3 or 6 DS3 High Capacity Special Access Systems may upgrade to a new Capacity Discount without incurring Channel Termination nonrecurring or discontinuance charges for existing capacity. This upgrade will be allowed provided the customer designated premises remain the same. Additionally, the new Channel Termination capacity must exceed the Channel Termination capacity of the plan being upgraded. For example, a customer orders a Capacity of 3 DS3 Interface with 2 DS3 Channels Installed. Subsequently, the customer requests an upgrade to a Capacity of 12 DS3 Interface and adds an additional 3 DS3 Channels installed. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all services that are upgraded. Full Channel Termination nonrecurring charges as set forth in Section 7.11.6 will apply only to the 3 additional DS3 Channels added at the time of the discount plan upgrade.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts (Cont'd)(1) Upgrades in DS3 Capacity Discounts (Cont'd)

Customers that subscribe to DS3 Capacity Discount plan may upgrade to a larger Capacity Interface. Discontinuance charges will not apply if all the following conditions are met:

- the customer's order for the disconnect of the current DS3 Capacity Interface and order for the installation of the upgraded DS3 Capacity Interface are received by the telephone company at the same time and specifies that the capacity of service is to be upgraded,
- the customer's disconnect order for the existing DS3 Service must reference the new connection order,
- the new service is provided between the same customer locations as the discontinued service,
- the new service has a DS3 Capacity Interface larger than the Capacity Interface of the discount plan or plans being discontinued and,
- any applicable DS3 High Capacity Term Discount plan time period is reestablished or upgraded at the time of the upgrade in the Capacity Discount plan.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.9 Density Pricing Zones

A system of density pricing has been established wherein each serving wire center and each meet-point with another Telephone Company is assigned to a zone. Services designated as subject to competition may have rates and charges, as set forth in 7.11 following, that vary between zones for the same service.

Interoffice facilities (Channel Mileage Facility and Channel Mileage Termination) between serving wire centers, or between a serving wire center and a meet-point with another Telephone Company, in different density pricing zones shall be rated with the price from the highest priced zone associated with the specific circuit. Channel Terminations and other zoned special access services are rated from the serving wire center to which they are connected.

Density pricing zones, applicable to serving wire centers, are identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Meet-points with another Telephone Company are assigned to density pricing zone 3.

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7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service

7.3.1 General

- (A) Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

- (A) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. the Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex Co-type switch.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.2 Application (Cont'd)

- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
  - (2) an analog channel termination that is used for radio or television program transmission; or
  - (3) a termination used for TELEX service; or
  - (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or
  - (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
  - (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.3 Exemption of Special Access Surcharge

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company (1) at the time the Special Access Service is ordered or installed; (2) at such time as the service is reterminated to a device which does not interconnect to local exchange facilities, or (3) at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.
- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date when the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the dispute is resolved.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations

- (A) The Surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as shown in the following example:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>		<u>Monthly Charge</u>
DS1	24	x	\$25	=	\$600.00

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- (B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.
- (C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations (Cont'd)

## (D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3 preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

## (E) Surcharge Payment Deferral Provision

The Telephone Company will bill the surcharge on Special Access facilities in service as of June 1, 1986, used in the provision of WATS or WATS-type service through a Telephone Company designated WATS Serving Office (WSO). Payment of such surcharge may be deferred, without penalty, for up to ninety (90) days from the date of the first bill rendered for the Special Access Surcharge.

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Special Access Surcharge will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1(B)(2) preceding.

7.3.5 Rate

	<u>USOC</u>	<u>Monthly Rate</u>
Surcharge for Special Access Service		
-Per Voice Grade Equivalent	S25	\$25.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Metallic Service7.5.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

It is expressly declared that metallic facilities are in continually decreasing supply and the Company is not obligated to continue to provide such facilities. Due to facility rearrangements, continued use of metallic facilities may be denied to existing customers with no obligation on the Company's part to pay customer equipment rearrangement costs. The Company will give the customer 90 days notification of this type of facility rearrangements. Metallic facilities are provided only where existing facilities and operating conditions permit.

7.5.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package MT-</u>			
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance		X		X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

\* All parameters are available within the ranges selected by the customer where technically feasible.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Metallic Service (Cont'd)7.5.3 Channel Interfaces

Compatible channel interfaces are set forth in 15.3 following.

7.5.4 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (2) Series Bridging of up to 26 customer designated premises.

The following table shows the technical specifications packages with which the optional features and functions are available.

		<u>Available with Technical Specifications Package MT-</u>			
		<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging		X	X		X
Series Bridging	X		X		

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Metallic Service (Cont'd)7.5.5 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(A) Channel Termination - Per Termination	T6ECS	\$ 7.87	\$213.29	(R)
		<u>USOC</u>	<u>Monthly Rate</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile		CMF	\$ 17.86	
(2) Channel Mileage Termination - Per Termination		CMT	None	
(C) Optional Features and Functions				
(1) Bridging				
(a) Three Premises Bridging - Per Port	BCNM3		\$ 1.18	
(b) Series Bridging - Per Port	BCNMS		\$ 1.18	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Telegraph Grade Service7.6.1 Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.6.2 Technical Specifications Packages

<u>Parameter</u>		<u>Package TG-</u>		
		<u>C*</u>	<u>1</u>	<u>2</u>
Telegraph Distortion	X	X	X	

The technical specifications are delineated in Technical Reference TR-NPL-000336.

7.6.3 Channel Interfaces

Compatible channel interfaces are set forth in 15.3 following.

7.6.4 Optional Features and Functions

## (A) Telegraph Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package TG-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
Telegraph Bridging	X	X	X

\* All parameters are available within ranges selected by the customer where technically feasible.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Telegraph Grade Service (Cont'd)7.6.5 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(A) Channel Termination				
- Per Termination				
-Two-Wire	T6E2X	\$20.92	\$213.29	(R)
-Four-Wire	T6E4X	\$33.47	\$213.29	(R)
(B) Channel Mileage	<u>USOC</u>		<u>Monthly Rate</u>	
(1) Channel Mileage Facility				
- Per Mile	CMF		\$ 1.32	
(2) Channel Mileage Termination				
- Per Termination	CMT		\$11.00	
(C) Optional Features and Functions				
(1) Telegraph Bridging				
Two-Wire and Four-Wire				
- Per Port				
- Two-Wire	BCNT2		\$ 1.18	
- Four-Wire	BCNT4		\$ 1.18	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service7.7.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

7.7.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package VG-</u>													<u>W</u>
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Attenuation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X	X		X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain														
Hits, and														
Dropouts	X													
Phase Jitter	X						X	X	X	X	X	X		X
Signal-to-C														
Message Noise					X									
Signal-to-C														
Notch Noise	X					X	X	X	X	X	X	X	X	X

\* The desired parameters are selected by the customer from the list of available parameters.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.2 Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NPL-000334 and TR-NPL-000335 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

7.7.3 Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 15.3 following.

7.7.4 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)

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7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-Type conditioning and Data Capability may be combined on the same service.



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7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(C) Conditioning (Cont'd)

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

(2) Improved Attenuation Distortion\*

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

(3) Improved Envelope Delay Distortion\*

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

\*Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to September 30, 1988.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(4) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

(E) Improved Return Loss

- (1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.
- (2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(F) Data Capability (D Conditioning)

Data Capability provides a transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-NPL-000335.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(H) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(K) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate. The Channel Termination rate is the four-wire rate.

(L) Improved Two-Wire Voice Transmission(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(L) Improved Two-Wire Voice Transmission (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnc
51 to 100	37 dBrnc
101 to 200	40 dBrnc
201 to 400	43 dBrnc
401 to 1000	45 dBrnc

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

The following table shows the technical specifications packages with which the optional features and functions are available.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)

	Available with Technical Specifications Package VG-													
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>
C-Type Condi- tioning	X					X	X	X	X	X	X			
Central Office Bridging Capability	X		X			X	X				X	X	X	X
Customer Speci- fied Premises Re- ceive Level	X		X	X				X	X	X				
Data Capability	X						X	X			X			
Improved Atten- uation Dis- tortion	X					X	X	X	X	X	X			
Improved Enve- lope Delay Distortion	X					X	X	X	X	X	X			
Improved Return Loss For Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	
For Effective Two-Wire Transmission	X		X	X				X						
Improved Two-Wire Voice Transmission														X
Sealing Current Conditioning	X						X							
Signaling Capa- bility	X	X	X	X				X	X	X				X
Effective Four-Wire Transmission	X	X	X	X		X		X						

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(A) Channel Termination				
- Per Termination				
-Two-Wire	T6E2X	\$17.50	\$213.29	(R)
-Four-Wire	T6E4X	\$26.87	\$213.29	(R)
Includes Effective Four-Wire Transmission				
Inside Move				
- Per Termination	IMCSP		\$106.65	
		<u>USOC</u>	<u>Monthly Rate</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility				
- Per Mile		CMF	\$ 1.25	
(2) Channel Mileage Termination				
- Per Termination		CMT	\$ 14.69	
(C) Optional Features and Functions				
(1) Bridging				
(a) <u>Voice Bridging</u>				
Two-Wire/Four-Wire				
- Per Port				
- Two-Wire		BCNV2	\$ 1.29	
- Four-Wire		BCNV4	\$ 1.29	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	
(C) Optional Features and Functions (Cont'd)			
(1) Bridging (Cont'd)			
(b) <u>Data Bridging</u>			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCND2	\$ 1.29	(I)
- Four-Wire	BCND4	\$ 1.29	
(c) <u>Telephoto Bridging</u>			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCNF2	\$ 1.29	
- Four-Wire	BCNF4	\$ 1.29	(I)

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	
(C) Optional Features and Functions (Cont'd)			
(2) Conditioning			
- Per Termination			
- C - Type	X1CPT	\$ 2.50	(I)
- Improved Attenuation Distortion*	IAD	None	
- Improved Envelope Delay Distortion	IEDDC	None	
- Sealing Current	1HBPT	None	

\*Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to September 30, 1988.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(C) Optional Features and Functions (Cont'd)				
(3) Improved Return Loss for Effective Two-Wire or Four- Wire Transmission				
- Per termination				
- Two-Wire	1RL2W	\$3.64	None	(I)
- Four-Wire	1RL4W	\$3.64	None	(I)
(4) Customer Specified Receive Level				
- Per two-wire termination RLS		None	None	
(6) Data Capability				
- Per termination	XDCPT	\$8.90	\$119.69	(I)(I)
(7) Effective Four-Wire Transmission	HBC	None	None	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	
(C) Optional Features and Functions (Cont'd)			
(8) Signaling Capability - Per termination	XSS++	\$13.19	(I)
AB			
AC			
CT			
DX			
DY			
EA			
EB			
EC			
EX			
GO			
GS			
LA			
LB			
LC			
LO			
LR			
LS			
RV			
SF			

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 Program Audio Service7.8.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.8.2 Technical Specifications Packages

<u>Parameter</u>	<u>C*</u>	<u>Package AP-</u>			
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Actual Measured Loss X	X	X	X	X	
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise X	X	X	X	X	
Phase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss X					
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000337.

7.8.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

\*The desired parameters are selected by the customer from the list of available parameters.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 Program Audio Service (Cont'd)7.8.3 Channel Interfaces (Cont'd)

<u>CI</u>	<u>Bandwidth</u>
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in 15.3 following.

7.8.4 Optional Features and Functions

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 Program Audio Service (Cont'd)7.8.5 Rates and Charges

(A)	Channel Termination	USOC	Monthly Rate	Daily* Rate	Nonrecurring Charge		(I)
					Monthly	Daily	
	-Per Termination						
	- 200 to 3500 Hz	T6ECS	\$17.99	\$1.80	\$ 213.29	213.29	
	- 100 to 5000 Hz	T6ECS	29.65	2.97	213.29	213.29	
	- 50 to 8000 Hz	T6ECS	29.65	2.97	213.29	213.29	
	- 50 to 15000 Hz	T6ECS	29.65	2.97	213.29	213.29	
(B)	Channel Mileage	USOC	Monthly Rate	Daily Rate*			(I)
(1)	Channel Mileage Facility						
	- Per Mile						
	- 200 to 3500 Hz	CMF	\$ 1.21	\$ .12			
	- 100 to 5000 Hz	CMF	51.32	5.13			
	- 50 to 8000 Hz	CMF	51.32	5.13			
	- 50 to 15000 Hz	CMF	51.32	5.13			
(2)	Channel Mileage Termination						
	- Per Termination						
	- 200 to 3500 Hz	CMT	\$10.55	\$ 1.06			
	- 100 to 5000 Hz	CMT	None	None			
	- 50 to 8000 Hz	CMT	None	None			
	- 50 to 15000 Hz	CMT	None	None			

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.9 Video Service7.9.1 Basic Channel Description

A video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.9.2 Technical Specifications Packages

<u>Video Parameters</u>		<u>Package TV-</u>		
		<u>C*</u>	<u>1</u>	<u>2</u>
Insertion Gain		X	X	X
Field-Time Distortion		X	X	X
Line-Time Distortion	X	X	X	
Short-Time Distortion		X	X	X
Chrominance/Luminance Gain Inequality		X	X	X
Chrominance/Luminance Delay Inequality		X	X	X
Amplitude/Frequency Characteristic	X	X	X	
Luminance Non-Linear Distortion	X	X	X	
Chrominance Non-Linear Gain Distortion		X	X	X
Chrominance Non-Linear Phase Distortion	X	X	X	
Transient Sync. Signal		X	X	X
Non-Linear		X	X	X
Dynamic Gain Distortion				
- Picture Signal		X	X	X
- Sync Signal	X	X	X	
Differential Gain				
Differential Phase		X	X	X
Chrominance-Luminance Intermodulation		X	X	X

\*The desired parameters are selected by the customer from the list of available parameters.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.9 Video Service (Cont'd)7.9.2 Technical Specifications Packages (Cont'd)

<u>Audio Channel Parameters</u> <u>Associated with Video Service</u>	<u>C*</u>	<u>Package TV-</u>		
		<u>1</u>	<u>2</u>	
Insertion Gain		X	X	X
Amplitude/Frequency Characteristic	X	X	X	
Total Harmonic Distortion & Noise		X	X	X
Maximum Steady-State Test Levels		X	X	X
Gain Difference Between Channels		X	X	
Phase Difference Between Channels		X	X	
Crosstalk		X	X	X
Audio-To-Video Time Differential		X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000338 and associated Addendum.

7.9.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.9 Video Service (Cont'd)7.9.3 Channel Interfaces (Cont'd)

<u>CI</u>	<u>Bandwidth</u>	<u>Provision</u>
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

Compatible channel interfaces are set forth in 15.3 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.9 Video Service (Cont'd)

7.9.4 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Daily* Rate</u>	<u>Nonrecurring Charge</u>		
				<u>Monthly</u>	<u>Daily</u>	
(A) Channel Termination						
- Per Termination						
- TV-1 or 2	TMEV1	\$1,421.63	\$781.89	None	None	(R)
(B) Channel Mileage						
	<u>USOC</u>		<u>Monthly Rate</u>		<u>Daily Rate</u>	
(1) Channel Mileage Facility						
- Per Mile						
- TV-1 or 2	CMF		\$1,071.28		\$589.20	
(2) Channel Mileage Termination						
- Per Termination						
- TV-1 or 2	CMT		\$5,281.09		\$2,904.60	(R)

\* Daily rates will be topped and maximum rates derived as set forth in 7.2.2(B) preceding.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service7.10.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer shall be responsible for providing the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

7.10.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package D-</u>					
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	$\frac{1}{X}$	$\frac{2}{X}$	$\frac{3}{X}$	$\frac{4}{X}$	$\frac{5}{X}$	$\frac{6}{X}$

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341

7.10.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

\*When 64 kbps service is multiplexed on a DS1 High Capacity service, the DS1 service must be equipped to provide clear channel capability.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.3 Channel Interfaces (Cont'd)

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

Compatible channel interfaces are set forth in 15.3 following.

7.10.4 Optional Features and Functions(A) Central Office Bridging Capability

The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. Bridging is not available on a 64.0 kbps channel.

(B) DS0 to Subrate

An arrangement that converts a DS0-B 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps DS0-A channels using digital time division multiplexing.

(C) Secondary Channel Capability

The secondary channel option provides the customer with the capability to derive an independent, slower speed auxiliary (secondary) channel that operates in parallel with a primary Digital Data Channel without reducing the operating speed of the primary channel. It is available for all speeds of 2.4, 4.8, 9.6, 19.2 and 56 kbps channels. For 56 kbps channels, the option may be used only in two-point configurations which do not require the installation of loop repeater equipment. The technical parameters for the channels with a secondary channel option are set forth in Technical Publication - TR-62310. The speeds of the secondary channels are as follows:

133 bps with a primary 2.4 kbps channel  
266 bps with a primary 4.8 kbps channel  
533 bps with a primary 9.6 kbps channel  
1,066 bps with a primary 19.2 kbps channel  
2,666 bps with a primary 56 kbps channel

This optional feature is subject to availability.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.4 Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

		<u>Available with Technical Specifications Package D</u>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Central Office Bridging							
Capability		X	X	X	X	X	
DS0 to Subrate		X	X	X			
Secondary Channel Capability*	X	X	X	X	X		

\* Subject to availability.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.5 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(A) Channel Termination				
- Per termination				
- 2.4 kbps	T6ECS	\$ 53.79	\$230.04	(I)
- 4.8 kbps	T6ECS	\$ 53.79	\$230.04	
- 9.6 kbps	T6ECS	\$ 53.79	\$230.04	
- 19.2 kbps	T6ECS	\$ 53.79	\$230.04	
- 56.0 kbps	T6ECS	\$ 53.79	\$230.04	
- 64.0 kbps	T6ECS	\$ 53.79	\$230.04	
(B) Channel Mileage	<u>USOC</u>		<u>Monthly Rate</u>	
(1) Channel Mileage Facility				
- Per Mile				
- 2.4 kbps	CMF		\$ 1.53	
- 4.8 kbps	CMF		\$ 1.53	
- 9.6 kbps	CMF		\$ 1.53	
- 19.2 kbps	CMF		\$ 1.53	
- 56.0 kbps	CMF		\$ 1.53	
- 64.0 kbps	CMF		\$ 1.53	
(2) Channel Mileage Termination				
- Per Termination				
- 2.4 kbps	CMT		\$12.43	
- 4.8 kbps	CMT		\$12.43	
- 9.6 kbps	CMT		\$12.43	
- 19.2 kbps	CMT		\$12.43	
- 56.0 kbps	CMT		\$12.43	
- 64.0 kbps	CMT		\$12.43	(I)

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.5 Rates and Charges (Cont'd)(C) Optional Features and Functions

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(1) Bridging - Per port	BCNDA	\$ 25.18	None	(I)
(2) DS0 to Subrate Multiplexing - - Per arrangement - up to 20 2.4 kbps - up to 10 4.8 kbps - up to 5 9.6 kbps				
All Subrates	SRM	\$376.99	None	(I)
(3) Secondary Channel Capability	SCC	ICB	ICB	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service7.11.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 1.544 Mbps (DS1) or 44.736 Mbps (DS3) isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

DS3 Channel Terminations are available utilizing an Electrical or Optical Interface. The Interfaces will have the characteristics of their respective signals at the Point of Termination.

Electrical Interface Channel Terminations will be provisioned utilizing Telephone Company provided equipment.

Optical Interface Channel Terminations will be provisioned utilizing Telephone Company provided equipment in the serving wire center. The Telephone Company will identify approved equipment types for use in conjunction with Telephone Company provided equipment. The customer must select and provide a system from this equipment at their premises.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.2 Technical Specifications Packages

<u>Parameters</u>	<u>Package</u>	
	<u>HC1</u>	<u>HC3</u>
Error-Free Seconds	X	
<u>Optional Features and Functions</u>		
Automatic Loop Transfer	X	
Battery Back-Up		X
Central Office Multiplexing:		
DS1 to Voice	X	
DS1 to DSO	X	
DS3 to DS1		X
Clear Channel Capability	X	

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

CI	Bit Rate
DS-15	1.544 Mbps (DS1)
DS-44	44.736 Mbps (DS3)

Compatible channel interfaces are set forth in 15.3 following.

7.11.4 Optional Features and Functions(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 High Capacity Service (Cont'd)

7.11.4 Optional Features and Functions (Cont'd)

(B) Battery Back-Up

Battery Back-Up is an optional DC power source to be used for emergency power for the channelizing equipment.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 High Capacity Service (Cont'd)

7.11.4 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing

(1) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(2) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

(3) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.4 Optional Features and Functions (Cont'd)(D) Clear Channel Capability (CCC)

- (1) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342.
- (2) CCC is provided, subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels\* between a telephone company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.
- (3) No charge applies when the CCC optional feature is ordered at the same time the High Capacity service is ordered. If the CCC optional feature is ordered as an addition to an existing High Capacity Service, a nonrecurring charge is applicable as set forth in 7.11.5 following. The customer must agree to out-of-service periods required to add this feature to an existing High Capacity Service.

\*Available only on a DS1-to-Digital multiplexed configuration.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1(A) Density Pricing Zone 1

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(1) Channel Termination - Per Termination - 1.544 Mbps	TMECS	\$ 79.87	\$474.00	(R)
(2) Channel Mileage		<u>USOC</u>	<u>Monthly Rate</u>	
(a) Channel Mileage Facility - Per Mile - 1.544 Mbps		CMF	\$9.25	(R)
(b) Channel Mileage Termination - Per Termination - 1.544 Mbps		CMT	\$133.00	
(3) Optional Features and Functions		<u>USOC</u>	<u>Monthly Rate</u>	
(a) Multiplexing, per arrangement DS1 to Voice*		MQ1	\$377.90	
DS1 to DS0		QMU	377.90	
(b) Automatic Loop Transfer - Per arrangement**		T59	\$202.55	
(c) Clear Channel Capability - Per 1.544 Mbps Transmission Path	<u>USOC</u>  CLR	<u>Monthly Rate</u>  None	<u>Nonrecurring Charge</u>  \$100.91	

\* A channel of this DS1 to the Hub can be used for Digital Data service.

\*\* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1 (Cont'd)(B) Density Pricing Zone 2

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(1) Channel Termination				
- Per Termination				
- 1.544 Mbps	TMECS	\$ 81.00	\$474.00	(R)
		<u>USOC</u>	<u>Monthly Rate</u>	
(2) Channel Mileage				
(a) Channel Mileage Facility				
- Per Mile				
- 1.544 Mbps	CMF		\$9.90	(R)
(b) Channel Mileage Termination				
- Per Termination				
- 1.544 Mbps	CMT		\$133.00	
(3) Optional Features and Functions				
		<u>USOC</u>	<u>Monthly Rate</u>	
(a) Multiplexing, per arrangement				
DS1 to Voice*	MQ1		\$377.90	
DS1 to DS0	QMU		377.90	
(b) Automatic Loop Transfer				
- Per arrangement**	T59		\$202.55	
		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(c) Clear Channel				
Capability				
- Per 1.544 Mbps				
Transmission				
Path	CLR	None	\$100.91	

\* A channel of this DS1 to the Hub can be used for Digital Data service.

\*\* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1 (Cont'd)(C) Density Pricing Zone 3

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(1) Channel Termination - Per Termination - 1.544 Mbps	TMECS	\$105.00	\$474.00	(R)
(2) Channel Mileage		<u>USOC</u>	<u>Monthly Rate</u>	
(a) Channel Mileage Facility - Per Mile - 1.544 Mbps		CMF	\$11.25	(R)
(b) Channel Mileage Termination - Per Termination - 1.544 Mbps		CMT	\$168.54	
(3) Optional Features and Functions		<u>USOC</u>	<u>Monthly Rate</u>	
(a) Multiplexing, per arrangement DS1 to Voice*		MQ1	\$377.90	
DS1 to DS0		QMU	377.90	
(b) Automatic Loop Transfer - Per arrangement**		T59	\$202.55	
(c) Clear Channel Capability - Per 1.544 Mbps Transmission Path	<u>USOC</u>  CLR	<u>Monthly Rate</u>  None	<u>Nonrecurring Charge</u>  \$100.91	

\* A channel of this DS1 to the Hub can be used for Digital Data service.

\*\* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS37.11.6.1 Monthly Rates and Charges - Density Pricing Zone 1

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,100.00	\$430.00	(R)
Capacity of 3 Interface	THJJX	1,900.00		
- Per DS3	TH5JX	185.58	430.00	
Capacity of 6 Interface	HDJAX	3,300.00		
- Per DS3	HD5AX	142.35	430.00	
Capacity of 12 Interface	THJNX	4,550.00		
- Per DS3	TH5NX	142.35	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,150.00	\$430.00	(R)
Capacity of 3 Interface	TH2JX	1,750.00		
- Per DS3	TH8JX	125.28	430.00	
Capacity of 6 Interface	HD2AX	2,729.00		
- Per DS3	HD8AX	94.85	430.00	
Capacity of 12 Interface	TH2NX	3,200.00		
- Per DS3	TH8NX	94.85	430.00	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.1 Monthly Rates and Charges - Density  
Pricing Zone 1 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$114.94	None	(I)
(2) Channel Mileage Termination * - Per Termination	CMT	\$510.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.2 36 Month Rates and Charges - Density  
Pricing Zone 1

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,000.00	\$430.00	(R)
Capacity of 3 Interface	THJJX	1,680.00		
- Per DS3	TH5JX	164.09	430.00	
Capacity of 6 Interface	HDJAX	2,750.00		
- Per DS3	HD5AX	118.54	430.00	
Capacity of 12 Interface	THJNX	4,100.00		
- Per DS3	TH5NX	118.54	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,035.00	\$430.00	(R)
Capacity of 3 Interface	TH2JX	1,600.00		
- Per DS3	TH8JX	114.54	430.00	
Capacity of 6 Interface	HD2AX	2,600.00		
- Per DS3	HD8AX	90.36	430.00	
Capacity of 12 Interface	TH2NX	3,400.00		
- Per DS3	TH8NX	90.36	430.00	

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.2 36 Month Rates and Charges - Density  
Pricing Zone 1 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility				
- Per Mile	CMF	\$110.00	None	(I)
(2) Channel Mileage Termination *				
- Per Termination	CMT	\$480.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.3 60 Month Rates and Charges - Density  
Pricing Zone 1

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$ 900.00	\$430.00	(R)
Capacity of 3 Interface	THJJX	1,600.00		
- Per DS3	TH5JX	156.28	430.00	
Capacity of 6 Interface	HDJAX	2,750.00		
- Per DS3	HD5AX	118.63	430.00	
Capacity of 12 Interface	THJNX	3,800.00		
- Per DS3	TH5NX	118.63	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,200.00	\$430.00	
Capacity of 3 Interface	TH2JX	1,480.00		
- Per DS3	TH8JX	105.95	430.00	
Capacity of 6 Interface	HD2AX	2,300.00		
- Per DS3	HD8AX	79.94	430.00	
Capacity of 12 Interface	TH2NX	3,000.00		
- Per DS3	TH8NX	79.94	430.00	

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.3 60 Month Rates and Charges - Density  
Pricing Zone 1 (Cont'd)

	USOC	Monthly Rate	Nonrecurring Charges	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$ 99.00	None	(I)
(2) Channel Mileage Termination * - Per Termination	CMT	\$430.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.4 Monthly Rates and Charges - Density  
Pricing Zone 2

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,148.58	\$430.00	(I)
Capacity of 3 Interface	THJJX	1,950.00		(I)
- Per DS3	TH5JX	190.46	430.00	
Capacity of 6 Interface	HDJAX	3,400.00		
- Per DS3	HD5AX	146.66	430.00	
Capacity of 12 Interface	THJNX	4,750.00		
- Per DS3	TH5NX	146.66	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,284.38	\$430.00	
Capacity of 3 Interface	TH2JX	1,800.00		
- Per DS3	TH8JX	128.86	430.00	
Capacity of 6 Interface	HD2AX	2,850.00		
- Per DS3	HD8AX	99.06	430.00	
Capacity of 12 Interface	TH2NX	3,750.00		
- Per DS3	TH8NX	99.06	430.00	(I)

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.4 Monthly Rates and Charges - Density  
Pricing Zone 2 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$114.94	None	(I)
(2) Channel Mileage Termination *				
- Per Termination	CMT	\$510.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.5 36 Month Rates and Charges - Density  
Pricing Zone 2

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,033.72	\$430.00	(R)
Capacity of 3 Interface	THJJX	1,800.00		
- Per DS3	TH5JX	175.81	430.00	
Capacity of 6 Interface	HDJAX	3,100.00		
- Per DS3	HD5AX	133.72	430.00	
Capacity of 12 Interface	THJNX	4,300.00		
- Per DS3	TH5NX	133.72	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,155.93	\$430.00	(R)
Capacity of 3 Interface	TH2JX	1,650.00		
- Per DS3	TH8JX	118.12	430.00	
Capacity of 6 Interface	HD2AX	2,550.00		
- Per DS3	HD8AX	88.63	430.00	
Capacity of 12 Interface	TH2NX	3,350.00		
- Per DS3	TH8NX	88.63	430.00	

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.5 36 Month Rates and Charges - Density  
Pricing Zone 2 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$110.00	None	(I)
(2) Channel Mileage Termination *				
- Per Termination	CMT	\$480.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.6 60 Month Rates and Charges - Density  
Pricing Zone 2

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$ 918.87	\$430.00	(R)
Capacity of 3 Interface	THJJX	1,550.00		
- Per DS3	TH5JX	151.39	430.00	
Capacity of 6 Interface	HDJAX	2,700.00		
- Per DS3	HD5AX	116.47	430.00	
Capacity of 12 Interface	THJNX	3,750.00		
- Per DS3	TH5NX	116.47	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,027.51	\$430.00	(R)
Capacity of 3 Interface	TH2JX	1,460.00		
- Per DS3	TH8JX	104.52	430.00	
Capacity of 6 Interface	HD2AX	2,300.00		
- Per DS3	HD8AX	79.94	430.00	
Capacity of 12 Interface	TH2NX	3,000.00		
- Per DS3	TH8NX	79.94	430.00	

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.6 60 Month Rates and Charges - Density  
Pricing Zone 2 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$ 99.00	None	(I)
(2) Channel Mileage Termination * - Per Termination	CMT	\$430.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.7 Monthly Rates and Charges - Density Pricing Zone 3

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,574.32	\$430.00	(I)
Capacity of 3 Interface	THJJX	2,500.00		
- Per DS3	TH5JX	244.19	430.00	
Capacity of 6 Interface	HDJAX	4,300.00		
- Per DS3	HD5AX	185.49	430.00	
Capacity of 12 Interface	THJNX	6,000.00		
- Per DS3	TH5NX	185.49	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,616.06	\$430.00	
Capacity of 3 Interface	TH2JX	2,300.00		
- Per DS3	TH8JX	164.65	430.00	
Capacity of 6 Interface	HD2AX	3,600.00		
- Per DS3	HD8AX	125.11	430.00	
Capacity of 12 Interface	TH2NX	4,740.00		
- Per DS3	TH8NX	125.11	430.00	(I)

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.7 Monthly Rates and Charges - Density  
Pricing Zone 3 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$129.44	None	(I)
(2) Channel Mileage Termination * - Per Termination	CMT	\$646.28	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.8 36 Month Rates and Charges - Density  
Pricing Zone 3

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,416.89	\$430.00	(R)
Capacity of 3 Interface	THJJX	2,260.00		
- Per DS3	TH5JX	220.74	430.00	
Capacity of 6 Interface	HDJAX	3,900.00		
- Per DS3	HD5AX	168.23	430.00	
Capacity of 12 Interface	THJNX	5,400.00		
- Per DS3	TH5NX	168.23	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,454.46	\$430.00	(R)
Capacity of 3 Interface	TH2JX	2,100.00		
- Per DS3	TH8JX	150.33	430.00	
Capacity of 6 Interface	HD2AX	3,280.00		
- Per DS3	HD8AX	114.00	430.00	
Capacity of 12 Interface	TH2NX	4,300.00		
- Per DS3	TH8NX	114.00	430.00	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.8 36 Month Rates and Charges - Density  
Pricing Zone 3 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility - Per Mile	CMF	\$125.00	None	(I)
(2) Channel Mileage Termination * - Per Termination	CMT	\$610.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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President  
1440 "M" Street, Lincoln, NE 68508

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.9 60 Month Rates and Charges - Density  
Pricing Zone 3

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(A) Channel Termination Per Termination				
(1) Electrical Interface				
Capacity of 1 Interface	THJAX	\$1,259.46	\$430.00	(R)
Capacity of 3 Interface	THJJX	2,000.00		
- Per DS3	TH5JX	195.35	430.00	
Capacity of 6 Interface	HDJAX	3,450.00		
- Per DS3	HD5AX	148.82	430.00	
Capacity of 12 Interface	THJNX	4,800.00		
- Per DS3	TH5NX	148.82	430.00	
(2) Optical Interface				
Capacity of 1 Interface	TH2AX	\$1,292.85	\$430.00	(R)
Capacity of 3 Interface	TH2JX	1,880.00		
- Per DS3	TH8JX	134.58	430.00	
Capacity of 6 Interface	HD2AX	2,900.00		
- Per DS3	HD8AX	100.79	430.00	
Capacity of 12 Interface	TH2NX	3,800.00		
- Per DS3	TH8NX	100.79	430.00	

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.9 60 Month Rates and Charges - Density  
Pricing Zone 3 (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
(B) Channel Mileage				
(1) Channel Mileage Facility				
- Per Mile	CMF	\$110.00	None	(I)
(2) Channel Mileage Termination *				
- Per Termination	CMT	\$545.00	\$500.00	
(C) Optional Features and Functions				
(1) Multiplexing, Per Arrangement DS3 to DS1	MQ3	\$279.89		
(2) Battery Back-Up, Per Arrangement	BU6	\$ 92.00		(I)

\* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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1440 "M" Street, Lincoln, NE 68508

## ACCESS SERVICE

8. Expanded Interconnection Service8.1 Service Description8.1.1 General

Expanded Interconnection Service (EIS) allows customers (Interconnectors) to interconnect their facilities with Telephone Company facilities on Telephone Company premises. EIS has two possible configurations. Physical collocation EIS would allow an Interconnector to locate certain facilities, fiber optic or microwave (where feasible), and equipment in a serving wire center. Virtual collocation EIS would allow an Interconnector to designate the equipment the Telephone Company would purchase, own and install on behalf of the Interconnector in the serving wire center. The type of collocation available in an Interconnector requested serving wire center shall be determined solely by the Telephone Company. The Interconnector may request that a serving wire center be made available for Expanded Interconnection Service but may not determine the type of collocation. EIS also provides for the interconnection, through the Cross-connect, of Telephone Company provided facilities and services (specified below) to Interconnector provided or specified facilities and equipment.

By ordering Expanded Interconnection Service from the Telephone Company under the terms of this tariff the Interconnector agrees it is bound and obligated to and by all the terms and conditions of this tariff.

Expanded Interconnection Service is provided to the Interconnector 24 hours a day, seven days a week.

The Telephone Company will accept Letters Of Agency (LOA) from Interconnectors' customers for ordering and billing of Physical Collocation EIS. (N)(y)  
(N)(y)

(y) Filed under authority of FCC 97-208.

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President  
1440 "M" Street, Lincoln, NE 68508

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.1 Service Description (Cont'd)

8.1.1 General (Cont'd)

The Facility Interface Service (FIS) provides manhole, conduit, cable vault, riser and runway leased space to connect the Interconnector's fiber optic or microwave (where feasible) facilities with space in the Company's serving wire center.

The Cross-connect Interface (CCI) connects the Interconnector to other tariffed Interstate services of the Company. The Telephone Company will allow the Interconnector to designate the channel facility assignments for non-multiplexed channels. (N)(y)

Specific Cross-connects may be provisioned as Telecommunications Service Priority (TSP) service as described in Section 13.5.5 following. (N)(y)

Cross-connects for the following services can be provided:

- High Capacity - 1.544 Mbps Service (DS1)
- High Capacity - 44.736 Mbps Service (DS3) - Electrical Interface

Other special access services are available on a bona fide request for such a service. Upon such a request, the service shall be included in this tariff section. Said tariff filing shall be within 45 days of receipt of the bona fide request by the Telephone Company and shall be effective 45 days after the filing date. Only access services currently available in the requested serving wire center may be requested as cross connects.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.1 Service Description (Cont'd)8.1.2 Availability

This service is offered on a first-come, first-served basis, subject to the availability of space and facilities in each serving wire center where interconnection is requested. The Telephone Company shall specify the type of facility (fiber optic cable or microwave) available in a wire center upon bona fide request by any Interconnector desiring collocation. A bona fide request shall have been received when the advance payment amount and sufficient information to begin design of the Interconnector's collocation space has been received by the Telephone Company. The Telephone Company shall be the sole judge of the sufficiency of the information provided by the Interconnector.

The Telephone Company shall also select an EIS interconnection point for each wire center. This information shall be listed in Section 8.1.2(B) following.

The Telephone Company shall designate all spaces to be occupied by the Interconnector's facilities.

Upon such a bona fide request, the wire center and its EIS interconnection point(s) shall be included in this tariff section as available for Physical Collocation EIS. Said tariff filing shall be within 45 days of receipt of the bona fide request by the Telephone Company and shall be effective 45 days after the filing date.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.1 Service Description (Cont'd)

8.1.2 Availability

(A) Rearrangements

In the event the Telephone Company determines that the Telephone Company's or any other entity's fiber optic cable facilities in conduit space or cable space or the Telephone Company's serving wire center equipment need rearrangement to accommodate the facilities of the Interconnector, the Telephone Company shall include these costs in the cable installation nonrecurring charges. Best efforts shall be made to minimize the cost of such rearrangements.

The Telephone Company shall not expand or enlarge any serving wire center for the sole purpose of physical or virtual collocation of Expanded Interconnection Service.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.1 Service Description (Cont'd)8.1.2 Availability (Cont'd)(B) Serving Wire Center Availability

- (1) Fiber Optic based Expanded Interconnection Service via physical collocation is available in the following serving wire centers:

<u>Address</u>	<u>CLLI Code</u>	<u>EIS Interconnection Point</u>
1440 "M" Street, Lincoln, NE	LNCLNEXL	Manhole 17-NA

- (2) Microwave based Expanded Interconnection Service is available, where feasible, upon a bona fide request.

8.2 Regulations8.2.1 Minimum Period for Expanded Interconnection Service

The Interconnector shall agree to purchase Expanded Interconnection Service for a minimum of one (1) year. Occupancy for all spaces shall be granted upon completion of the service preparation work. The Telephone Company shall use its best efforts to provide occupancy of the space(s) on time and shall keep the Interconnector advised of any delays. See Section 8.2.11(I)(2)

In the event that the Telephone Company is delayed in providing EIS to the Interconnector for any reason other than the acts or omissions of the Interconnector, the Interconnector shall not be obliged to pay the rate elements shown in Section 8.4 following, for Expanded Interconnection until the date the Telephone Company provides occupancy to the Interconnector. At the end of the minimum period, service shall be on a month-to-month basis at terms, conditions and rates then currently in effect.



## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.2 Termination of Physical Collocation EIS

The Telephone Company shall have the right, for good cause shown, and upon ninety (90) days notice, to reclaim any floor space, conduit space or cable space, in order to fulfill its obligations under the law and the Telephone Company's tariffs to provide telecommunications services to its end user customers.

The Telephone Company shall have the right to terminate Physical Collocation at any time with respect to any multiplexing node and associated floor, cable, conduit space(s) and power where the serving wire center premises becomes the subject of a taking by eminent domain authority having such power. The Telephone Company shall notify the Interconnector of such termination and identify the schedule by which the Interconnector shall proceed to have the Interconnector's equipment or property removed from the multiplexing node(s) and associated cable and conduit space(s). The Interconnector shall have no claim against the Telephone Company for any relocation expenses (unless the Telephone Company is awarded relocation expenses as part of any award made for such taking), any part of any award that may be made for such taking or value of any unexpired minimum period that results from a termination by the Telephone Company under this Section of this Tariff, or any loss of business from full or partial interruption or interference due to any termination. However, nothing herein shall be construed as preventing the Interconnector from making its own claim against the eminent domain authority ordering the taking of the serving wire center premises.

The Interconnector may terminate Physical Collocation EIS as to any standard multiplexing node or portion thereof (in 50 square feet decrements), cable space, conduit space and power feed described in this tariff by giving sixty (60) days prior written notice to the Telephone Company. However, any remaining multiplexing node or floor space obtained under Expanded Interconnection may not be less than 100 square feet or a non-standard size as negotiated according to 8.2.6(D) following. Forty-eight (48) volt power feed quantities shall not be reduced to less than the minimum quantities. The Interconnector is responsible for the costs of such partial termination.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.2 Termination of Physical Collocation EIS (Cont'd)

In the event of a default under or breach of any material term or condition of Physical Collocation EIS by either Party (the Telephone Company or the Interconnector), the other Party shall have the right to terminate Physical Collocation EIS upon sixty (60) days written notice to the Party in breach, if the default or breach is not cured within sixty (60) days of the date that written notice of such default or breach is given by one Party to the other. Either Party shall also have an immediate right to terminate Physical Collocation EIS in the event of the other Party's bankruptcy, liquidation, insolvency or receivership.

8.2.3 Limitations

The provision of Physical Collocation EIS does not constitute a joint undertaking of the Telephone Company for the furnishing of any service.

None of the provisions of this Section of this Tariff apply or extend to any end user of the Interconnector.

The Telephone Company is not liable for any act or omission of the Interconnector in the furnishing of services to the Interconnector's end users.

Physical Collocation EIS does not convey to the Interconnector any right, title or interest in the Telephone Company serving wire center facility; the multiplexing node; floor space; floor space enclosure; conduit space; cable space; cable racking or runways; or vault space.

Physical Collocation EIS shall not provide any person not a party to Physical Collocation EIS with any remedy, claim, liability, reimbursement, claim of action or other right in excess of those existing without reference to this Tariff.

Neither the Telephone Company nor the Interconnector shall be held liable for any delay or failure in performance of any part of Physical Collocation EIS as described in this Tariff to the extent that such failure or delay is caused by Acts of God, acts of civil or military authority, government regulations, embargoes, epidemics, war, terrorist acts, riots, insurrections, fires, explosions, earthquakes, nuclear

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.3 Limitations (Cont'd)

accidents, floods, strikes, work stoppages, power blackouts, volcanic action, other major environmental disturbances, unusually severe weather conditions, inability to secure products or services of other persons or transportation common carriers or other causes beyond the control of either the Telephone Company or the Interconnector. If any force majeure condition occurs, the Party (the Telephone Company or the Interconnector) delayed or unable to perform shall give immediate notice to the other Party and shall take all reasonable steps to correct the force majeure condition. During the pendency of the force majeure, the duties of both the Telephone Company and the Interconnector under Physical Collocation EIS affected by the force majeure condition shall be abated and shall resume without liability thereafter.

Neither the Telephone Company nor the Interconnector shall use the other's name without the written permission of the other in connection with promotional, advertising or other marketing material.

In the event that the Interconnector withdraws a request for Physical Collocation EIS, the Interconnector will only be responsible for those amounts already expended on its behalf by the Telephone Company. (N)(y)

8.2.4 Insurance Requirements

The Interconnector shall, at its sole cost and expense, procure, maintain, pay for and keep in force insurance as specified in this Section 8.2.4 following, and underwritten by insurance companies licensed to do business in the state where Physical Collocation EIS is offered. The Interconnector's insurance company's rating need not be higher than what the Telephone Company requires of its own underwriters. The Interconnector may be self insured with a program reasonably satisfactory to the Telephone Company. The Telephone Company shall be named as an additional insured and as a loss payee on all applicable policies. (N)(y)

(A) Types of Coverage and Limits

- (1) Commercial general liability, including Contractual Liability, insuring against liability for Personal Injury and Property Damage in an amount not less than \$5 million combined single limit per occurrence, naming the Telephone Company as an Additional Insured. The Contractual Coverage shall have coverage that shall apply if any exposure of Physical Collocation EIS exists within fifty (50) feet of a

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.4 Insurance Requirements (Cont'd)(A) Types of Coverage and Limits (Cont'd)

## (1) (Cont'd)

railroad right of way, by including the following:  
"including coverage for work performed on or within fifty (50) feet of any railroad right of way." The insurance shall also contain coverage for bodily injury and property damage, with a policy aggregate of \$5 million. Said coverage shall include premises operations, contractual, independent contractors products/completed operations, broad form property and personal injury endorsements.

## (2) Umbrella/Excess Liability coverage in an amount of \$5 million excess of coverage specified in 8.2.4(A)(1) preceding and 8.2.4(A)(5) following.

## (3) All Risk Property coverage on a full replacement cost basis insuring all of the Interconnector's real and personal property situated on or within the Telephone Company location(s). The Interconnector may also elect to purchase business interruption and contingent business interruption insurance, knowing that the Telephone Company has no liability for loss of profit or revenues should an interruption of service occur.

## (4) Workers Compensation coverage including Employers Liability coverage in an amount of \$2 million per accident, in compliance with any Workers' Compensation or similar law where any work is performed in any way connected with the provision of Expanded Interconnection.

## (5) Auto liability insurance, including Interconnector owned, non-owned and hired vehicles, with at least a \$3 million bodily injury and property damage combined single limit naming the Telephone Company as an additional insured.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.4 Insurance Requirements (Cont'd)

(A) Types of Coverage and Limits (Cont'd)

- (6) The limits set forth above in this Section 8.2.4 may be increased by the Telephone Company at any time to at least such minimum limits as shall then be customary in respect of comparable situations within the existing Telephone Company buildings.

(B) Other Insurance Requirements

- (1) All policies purchased by the Interconnector shall be deemed to be primary and not contributing to or in excess of any similar coverage purchased by the Telephone Company.
- (2) All insurance shall be in effect on or before occupancy date and shall remain in force as long as the Interconnector's facilities remain within any spaces governed by Physical Collocation EIS. If the Interconnector fails to maintain the coverage, the Telephone Company may pay the premiums thereon and seek reimbursement of same from the Interconnector.
- (3) The Interconnector shall submit certificates of insurance reflecting the coverages specified in this Tariff prior to occupancy or prior to the commencement of the work called for in this Tariff if during the construction period the Interconnector has access to the Telephone Company's premises either directly or through its contractors. The Interconnector shall arrange for the Telephone Company to receive thirty (30) days advance notice of cancellation from the Interconnector's insurance company. (C)(y)
- (4) Failure to comply with the provisions of this Section shall be deemed grounds for eviction from the spaces provided under Physical Collocation EIS. (C)(y)
- (5) Should there be a liability claim that is common to both the Telephone Company and the Interconnector, the Telephone Company shall handle the claim (unless otherwise agreed in writing). After claim resolution, defense and settlement costs shall be shared proportionally based on square footage of occupancy.

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.5 Liability

- (A) The Telephone Company reserves to itself, its successors and assigns, the right to utilize the space within its serving wire center(s) in such a manner as shall best enable it to fulfill its own service requirements. The Telephone Company and Interconnector shall be liable one to the other only for and to the extent of any physical damage caused by the negligence of one of such parties, its agents or employees to the other's facilities or equipment occupying the Telephone Company's serving wire center. Neither party shall be liable to the other or the other's customers for any interruption of service or for interference with the operation of the other's facilities arising in any manner out of the use of space in the Telephone Company's serving wire center(s), unless caused by the party's gross negligence or willful misconduct. (C)(y)
- (B) Except as provided in this Section 8, each party shall indemnify, defend, and save harmless the other from and against any and all losses, claims, demands, causes of action and costs, whether suffered, made, instituted, or asserted by the other party or by any third party or person for damages to property and injury or death to persons, including payments made under any Workers Compensation Law or under any plan for employees' disability and death benefits, which may arise out of or be caused by the negligent installation, maintenance, repair, replacement, presence, use or removal of such party's equipment or facilities, or by the proximity thereof to the equipment or facilities of all parties occupying space in the Telephone Company's serving wire center(s), or by any negligent act or omission of the party, its employees, agents or contractors, in connection therewith. The provisions of this Section on Liability shall survive the termination, cancellation, modification or rescission of Physical Collocation EIS. (C)(y)

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.5 Liability (Cont'd)

- (C) The Interconnector shall indemnify, defend, and save harmless Telephone Company from and against any and all losses, claims, demands, causes of action, damages and costs, including but not limited to attorney's fees and damages, costs, and expense of relocating conduit systems resulting from loss of right-of-way or property owner consents, which may arise out of or be caused by the presence in, or the occupancy of the serving wire center by the Interconnector, and/or acts by the Interconnector, its employees, agents, or contractors. (C)(y)
- (D) In no event shall either party or any of its directors, officers or employees or agents be liable for any loss of profit or revenue by the other party or for any loss of AC or DC power, heating, ventilation and air conditioning (HVAC) interruptions, consequential, incidental, special, punitive or exemplary damages incurred or suffered by the other party, even if the party has been advised of the possibility of such loss or damage.
- (E) Each party represents, warrants and covenants to the other that it shall not cause or permit any other party to cause any environmental conditions in, at or affecting the serving wire center which violate any Federal, State or Local law, ordinance, rule or regulation. Neither party shall store any hazardous materials in the multiplexing node, and shall not use any hazardous materials or equipment without the express written consent of the other party. Any such materials or equipment used shall be disposed of in a manner satisfactory to the other party. Each party shall indemnify, defend, and hold harmless the other party from any and all liability, damage, claim or cost of any kind, including reasonable attorneys' fees, resulting from or arising out of any breach of this Section of this Tariff. The provisions of this paragraph shall survive the termination, cancellation, modification, or rescission of Physical Collocation EIS. (C)(y)
- (F) Each party shall be responsible for all persons under its control or direction working in compliance with this Tariff, satisfactorily, and in harmony with all others working in the Telephone Company premises. (C)(y)

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.5 Liability (Cont'd)(G) Damage and/or Casualty to Serving Wire Center

- (1) If any of the facilities providing Physical Collocation EIS shall be damaged by fire or other casualty, the Interconnector shall give immediate notice thereof to the Telephone Company. Terms, conditions and rates set forth in this tariff shall continue in full force and effect except as set forth in this Section 8.2.5(G) following.
- (2) If any of the facilities providing Physical Collocation EIS are partially damaged or rendered partially unusable by fire or other casualty not caused by the Interconnector, the damages to said facilities shall be repaired by and at the expense of the Telephone Company. All fees and charges, until such repair shall be substantially completed, shall be apportioned from the day following the casualty according to the part of the floor space and/or associated conduit space and cable space which are usable.
- (3) If the floor space, conduit space, cable space or power plant is totally damaged or rendered wholly unusable by fire or other casualty not caused by the Interconnector, then all fees and charges shall be proportionately paid up to the time of the casualty and thenceforth shall cease until the date when the space shall have been repaired and restored by the Telephone Company, subject to the Telephone Company's right to elect not to restore the same as hereinafter provided.
- (4) If the floor space, conduit space, cable space or power plant is rendered wholly unusable through no fault of the Interconnector, or (whether or not the demised premises are damaged in whole or in part) if the building shall be so damaged that the Telephone Company shall decide to demolish it or to rebuild it, then, in any of such events, the Telephone Company may elect to terminate Physical Collocation EIS at the specific serving wire center by written notice to the Interconnector given within Sixty (60) days



## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.5 Liability (Cont'd)(G) Damage and/or Casualty to Serving Wire Center (Cont'd)

## (4) (Cont'd)

after such fire or casualty and upon the date specified in such notice the minimum period shall expire as fully and completely as if such date were the date set forth for the termination of the minimum period. The Interconnector shall forthwith quit, surrender and vacate the floor space, conduit space and cable space without prejudice however to the Telephone Company's rights and remedies against the Interconnector under any provisions in effect prior to such termination, and any fees and charges owing shall be paid up to such date and any payments made by the Interconnector which were on account of any period subsequent to such date shall be returned to the Interconnector. Unless the Telephone Company shall serve a termination notice as provided for in this Section, the Telephone Company shall make the repairs and restorations under the conditions of Sections 8.2.5(G)(2) and 8.2.5(G)(3) preceding, with all reasonable expedition subject to delays due to adjustment of insurance claims, labor troubles and causes beyond the Telephone Company's reasonable control. After any such casualty, the Interconnector shall cooperate with the Telephone Company's restoration by removing from the multiplexing node as promptly as reasonably possible, all of the Interconnector's salvageable inventory and movable equipment, furniture and other property. The Interconnector's liability for fees and charges shall resume either upon occupancy by the Interconnector or thirty (30) days after written notice from the Telephone Company that the multiplexing node, floor space, conduit space, cable space or power plant is restored to a condition comparable to that existing prior to such casualty.

- (5) In the event of a catastrophic loss, resulting in damages to the central office and the physical collocation space, the Telephone Company will inform the Interconnector of its plans to rebuild as soon as is practicable and the Telephone Company will restore service to the Interconnector as soon as practicable. (N)(y)

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.5 Liability (Cont'd)

(H) Nothing contained in this tariff shall relieve the Interconnector from liability that may exist as a result of damage from fire or other casualty. Notwithstanding the foregoing, each party shall look first to any insurance in its favor before making any claim against the other party for recovery for loss or damage resulting from fire or other casualty, and to the extent that such insurance is in full force and collectible and to the extent permitted by law, the Telephone Company and the Interconnector each hereby releases and waives all right of recovery against the other or one claiming through or under each of them by way of subrogation or otherwise. The foregoing release and waiver shall be in force only if both the Telephone Company's and the Interconnector's insurance policies contain a clause providing that such a release or waiver shall not invalidate the insurance and also, provided that such a policy can be obtained without additional premiums.

The Interconnector acknowledges that the Telephone Company shall not carry insurance on the Interconnector's furniture and/or furnishings or any fixtures or equipment, improvements, or appurtenances removable by the Interconnector.

(D)(y)

(D)(y)

(I) Each party shall hold the other harmless from and against any claim, judgment or liability of any nature, regardless of the cause therefor, that may be asserted or obtained by any person for personal injury or property damage related to or arising from the existence of the indemnifying party's owned or leased fiber optic cable, other cable or equipment in or attached to the interconnection point, conduit space, cable vault, cable space, multiplexing node or other item used to provide Expanded Interconnection Service (other than negligent actions or non-actions of the indemnified party's employees and agents) and any act, or failure to act, of the indemnifying party in connection with the use, inspection, maintenance, repair and replacement of such party's owned or leased fiber optic cable, other cable or equipment.

(C)(y)

(C)(y)

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.6 Multiplexing Node

A multiplexing node is the area in a Telephone Company serving wire center set aside for the exclusive use of an Interconnector purchasing Physical Collocation EIS.

(A) Technical Standards

All Interconnector owned or leased equipment to be installed in Telephone Company serving wire centers shall either be on the Telephone Company's list of approved products, or equipment that complies with the Bellcore Network Equipment Building System (NEBS) Generic Equipment Requirements (TR-NWT-000063) and Telephone Company serving wire center environmental and transmission standards in effect at the time of equipment installation. Interconnection shall be made in accordance with the provisions specified in technical reference publication TR-NWT-000063 and Section 2.6 preceding.

(B) Types of Equipment Allowed

The Interconnector's multiplexing node shall be the location where the Interconnector may place equipment needed to terminate basic transmission facilities, including optical terminating equipment and multiplexers.

- (1) The Interconnector may use the multiplexing node solely for the purposes of installing, maintaining and operating the Interconnector's equipment to interconnect with telecommunications services and facilities provided by the Telephone Company in accordance with this Section 8 of this Tariff and for no other purpose.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.6 Multiplexing Node (Cont'd)

(B) Types of Equipment Allowed (Cont'd)

(2) The Interconnector may order business service under the Telephone Company's local exchange tariff for official administrative communications required within the multiplexing node. The Interconnector's equipment and installation of the Interconnector's equipment shall comply with the Telephone Company's policies and practices relating to fire, safety, health, environmental, and network safeguards, and the Interconnector shall ensure that its equipment and installation activities do not act as a hindrance to the Telephone Company's services or facilities.

(3) The Telephone Company will make reasonable efforts to provide contiguous space when the Interconnector requires it for expansion. In the event that contiguous space is not available and an Interconnector occupies more than one floor space location within the same serving wire center premises, the Interconnector shall be allowed to interconnect its equipment contained in such floor spaces. At these locations, the Interconnector shall be responsible for supplying the cabling between the Interconnector's floor space locations using the Telephone Company designated supporting structures. Additional rate elements and rates shall be developed and filed in this tariff in accordance with the Rules and Regulations of the Federal Communications Commission to recover the costs of such structures and activities. (C)(y)

(C) Non-Compliant Installations

If at any time the Telephone Company reasonably determines that either the Interconnector's equipment or the Interconnector's installation does not meet the requirements of this Tariff, the Interconnector shall be responsible for the costs associated with the removal of equipment or modification of the equipment or installation to render it compliant. If the Interconnector fails to correct any non-compliance with these standards within fifteen (15) days written notice to the Interconnector, the Telephone Company may have the equipment removed or the condition corrected at the Interconnector's expense.

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.6 Multiplexing Node (Cont'd)

(C) Non-Compliant Installations (Cont'd)

If, during the installation phase, the Telephone Company reasonably determines any of the Interconnector's activities or equipment are unsafe, non-standard or in violation of any applicable fire, environmental or other laws or regulations, the Telephone Company has the right to immediately stop the work or place it on hold. However, when such conditions pose an immediate threat to the safety of the Telephone Company's employees, interfere with the performance of the Telephone Company's service obligations, or pose an immediate threat to the physical integrity of the conduit system or the cable facilities of the Telephone Company, the Telephone Company may perform such work and/or take such action that the Telephone Company deems necessary without prior notice to the Interconnector. The reasonable cost of said work and/or actions shall be borne by the Interconnector. The Telephone Company reserves the right to remove products, facilities and equipment from its list of approved products if such products, facilities and equipment are determined to be no longer compliant with NEBS and the Telephone Company standards.

(D) Enclosures

The Telephone Company shall designate floor space within each serving wire center which shall constitute the multiplexing node. The Telephone Company shall engineer and construct a secure enclosure and/or room for the Interconnector(s).

(C)(Y)

(D)(Y)

(D)(Y)

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.6 Multiplexing Node (Cont'd)

(D) Enclosures (Cont'd)

(D)(y)

(D)(y)

Any work required or requested by the Interconnector after initial installation solely because of the existence of the Interconnector's facilities shall be at the Interconnector's expense.

The minimum size of a standard multiplexing node shall be 100 square feet per serving wire center. Additional space shall be offered on an as needed basis where feasible. An Interconnector with a multiplexing node in a Telephone Company serving wire center may request additional standard increments of 50 square feet in the same serving wire center.

(D)(y)

Non-standard size nodes may be negotiated between the Telephone Company and the Interconnector. Terms, conditions and rates for such space shall be developed and filed on an Individual Case Basis (ICB). Any Interconnector desiring the same terms and conditions shall be offered the same rates.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.6 Multiplexing Node (Cont'd)(E) Power and Environmental Support

In addition to floor space the Telephone Company shall provide DC power, battery and generator back-up power, 110 volts AC power for convenience outlets and lighting for frames and environmental support to the Interconnector's equipment in the same manner that it provides such support items to its own equipment within that serving wire center. Such power shall not be guaranteed to any level in excess of the level provided by the Telephone Company for its own equipment and facilities. While the Telephone Company shall make every effort to prevent loss of power, no guarantee shall be made for absolute prevention of loss of power.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.6 Multiplexing Node (Cont'd)(E) Power and Environmental Support (Cont'd)(1) DC Power

Direct Current (DC) power with a nominal 48 volts power derived from the Telephone Company's rectifier and battery DC plant voltage shall be provided. DC power can vary between 54 volts (high voltage shutdown) and 45 volts. Normal plant float voltage is 52 volts. The Telephone Company and/or vendors approved by the Telephone Company shall install the equipment needed to deliver power to a DC power board in the immediate area of the Interconnector's multiplexing node. A ground bar for the use of all Interconnectors shall be connected to the serving wire center isolation ground bar at the Interconnector's expense. The DC power plant shall be subject to the normal voltage reductions common to battery plants occurring during commercial power failures. Once the back-up generator system is operational and placed back on-line, the DC voltage will return to the nominal voltage level. Should the Interconnector's power requirements increase to the point that the Telephone Company shall purchase additional power plant to meet their demands, the Interconnector shall be responsible for compensating the Telephone Company for the purchase and installation of such additional plant.

(2) Emergency AC Power

Emergency AC power is provided by a stand-by generator (on-site or portable) back-up during a loss of commercial AC. The transition time from commercial AC power to on-site emergency AC power can be anywhere from 10 to 120 seconds. Provision of portable generation equipment will take longer.

(F) Maintenance

The Interconnector shall be responsible for the installing, maintaining, repairing and servicing of its equipment located in the multiplexing node.



## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.6 Multiplexing Node (Cont'd)(G) Acceptance and Turnover of Space(s)

The Telephone Company shall notify the Interconnector in writing of the completion of the service preparation and cable installation work. Prior to beginning installation work or occupancy, the Interconnector shall indicate in writing the acceptance of all work done by the Telephone Company and/or any vendors approved by the Telephone Company. Interconnector access to the spaces shall be provided only after such acceptance. Billing of floor space, conduit facilities, power feeds, cross-connects and the remaining 50 percent of the Construction nonrecurring rate and the remaining 50 percent of the Entrance Facility Installation nonrecurring rate shall begin upon written notification by the Telephone Company to the Interconnector that all installation has been completed and the multiplexing node is ready for occupancy.

(C)(y)

(C)(y)

Before beginning any delivery, installation, replacement or removal work for equipment and/or facilities located within the Interconnector's multiplexing node, the Interconnector shall obtain the Telephone Company's written approval of the Interconnector-proposed scheduling of the work in order to coordinate use of temporary staging areas and other building facilities. The Telephone Company may request additional information before granting approval, and may require scheduling changes. Such approval shall not be unreasonably withheld.

The Interconnector is responsible for procuring all fiber optic cables from the interconnection point to the multiplexing node, including fiber optic cable into the serving wire center cable vault, and within cable support structures between the cable vault and the multiplexing node.

Certain material formerly found on this page now appears on page 464.1.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd) (N)(Y)
- 8.2 Regulations (Cont'd)
- 8.2.6 Multiplexing Node (Cont'd) (N)(Y)
- (H) Reclamation of Floor Space (M)(C)(Y)
- If floor space is needed to accommodate another Interconnector or the Telephone Company's service, the Telephone Company may take back from the Interconnector floor space not being used or not being used efficiently. In determining whether an Interconnector's space is being used efficiently, the Telephone Company will consider all relevant factors, including the need to meet minimum safety standards, the amount of space needed for ventilation and access, the need for an adequate amount of storage space, and the number of bays needed for the type of equipment deployed. The Interconnector shall have one hundred and eighty (180) days from notice by the Telephone (M)(C)(Y)

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.6 Multiplexing Node (Cont'd)

(H) Reclamation of Floor Space (Cont'd)

Company to either satisfy the requirement that floor space be efficiently used or vacate the space. Warehousing is not allowed. Warehousing shall be deemed to occur when purchased floor space has not been occupied by Interconnector equipment for more than one (1) year. Both the Telephone Company and the Interconnector shall work cooperatively to maximize the availability of floor space.

(C)(y)  
(C)(y)

(I) The Interconnector shall be responsible for accepting delivery, installation and maintenance of its equipment within the multiplexing node. The Interconnector shall not construct improvements or make alterations or repairs to the floor space or floor space enclosure (if any) without the prior written approval of the Telephone Company, which the Telephone Company shall not unreasonably withhold.

(J) Prohibited Tools

Powder actuated tools shall not be used in any fashion in any serving wire center without specific permission of the Telephone Company.

8.2.7 Access, Safety and Security

(A) The Telephone Company shall permit the Interconnector's employees, agents and contractors approved by the Telephone Company (such approval shall not be unreasonably withheld) to have access to the areas where the Interconnector's multiplexing node is located at all times, provided that the Interconnector's employees, agent and contractors comply with the policies and practices of the Telephone Company pertaining to fire, safety and security. The Interconnector shall be provided with serving wire center specific procedures for entry. The Interconnector shall also be given procedures for

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.7 Access, Safety and Security (Cont'd)

(A) (Cont'd)

notifying the Telephone Company that supervisory personnel shall be needed at a specific serving wire center or other Telephone Company premise. The Interconnector shall pay the stated supervision nonrecurring charges, as described in Section 8.2.11(M) following, for all supervision of its personnel in the serving wire center or other Telephone Company premises.

(B) The Interconnector shall not install any equipment, cable or fiber optic cable in its multiplexing node that does not meet the National Electrical Code, local electrical codes or other applicable health and safety regulations.

(C) Inspections

(1) The Interconnector shall allow the Telephone Company access to the multiplexing node for emergency, safety and inspection purposes. Inspections may be conducted at irregular intervals of all or portions of the Interconnector's facilities, to determine that occupancies are authorized and are installed and maintained in conformance with the required standards. The Interconnector shall have the right to be present for inspections of their physical collocation equipment. The Telephone Company will provide the Interconnector with two weeks advance written notice for non-emergency inspections. Non-emergency inspections will be conducted no more frequently than once a month. If an inspection is to be conducted by an outside agency (e.g., fire, safety, insurance), the Telephone Company will notify the Interconnector promptly in writing of the outside agency inspection unless notice in writing is not practicable. If notice in writing is not practicable, the Telephone Company will provide the Interconnector with prompt non-written notice so that the Interconnector can exercise its right to be present at the inspection. In the event that an emergency necessitates an inspection, the Telephone Company will, as soon as reasonably possible, notify the Interconnector of the emergency, the nature of the emergency, and that an inspection is being conducted in response to the emergency.

(C)(y)

(C)(y)

Certain material formerly found on this page now appears on page 467.

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.7 Access, Safety and Security (Cont'd)

(C) Inspections (Cont'd)

- (2) The Telephone Company shall visually observe the Interconnector's equipment, cable facilities, fiber optic cable and equipment installation during and shortly after the completion of the installation of such equipment and facilities to determine that all occupancies conform to the standards required by this Tariff. (M)(y)
- (3) The Telephone Company shall verify that corrective action has been taken by the Interconnector on variances from required safety, construction and maintenance practices reported to the Interconnector by the Telephone Company. (M)(y)
- (4) The Telephone Company has the right to inspect, at the Interconnector's expense, the completed installation of the Interconnector's equipment and facilities.
- (5) Any repairs or modifications made necessary by such inspections shall be at the expense of the Interconnector.
- (6) The Interconnector has the right to be present at such inspections.
- (7) The Telephone Company reserves the right of access to the Interconnector's multiplexing node to perform required daily housekeeping and building maintenance activities.

(D) Security Arrangements

- (1) The Interconnector shall abide by all the Telephone Company security practices for non-Telephone Company employees with access to the Telephone Company's serving wire centers. Any violation of this Section 8.2.7 shall be grounds for termination of Physical Collocation EIS for the Interconnector involved.
- (2) The Interconnector shall supply the Telephone Company with a list of its employees who require access. The list shall include social security numbers of all such individuals.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.7 Access, Safety and Security (Cont'd)(D) Security Arrangements (Cont'd)

- (3) The Telephone Company shall issue non-employee photographic identification cards for each Interconnector employee listed, in accordance with Section 8.2.7(D)(2) preceding, at the Interconnector's expense as described in Section 8.2.11(M)(5) following. These cards shall permit access to the location of the Interconnector's multiplexing node. The Interconnector is responsible for returning cards of its terminated employees. All cards shall be returned upon termination of Interconnector's Physical Collocation EIS.
- (4) The Interconnector's employees shall display identification cards at all times.
- (5) The Interconnector's employees are restricted to a specific access route, designated by the Telephone Company, from the designated serving wire center exterior door to the multiplexing node. The Interconnector's employees shall be accompanied at all times by a Telephone Company employee assigned to Interconnector supervision at the Interconnector's expense.
- (6) The Telephone Company shall provide the security device for the multiplexing node enclosure. The Interconnector shall be provided with keys or other provisions for access to its node. The Telephone Company shall be permitted access to the multiplexing node to perform its required housekeeping, building maintenance and equipment inspection activities and in the event of an emergency.
- (7) During the installation phase, or for subsequent maintenance, the Interconnector shall have access to its multiplexing node and any room or area containing the Interconnector's equipment or facilities. The Interconnector shall be supervised at all times and in such required areas by qualified Telephone Company employees for these occasions at the expense of the Interconnector, as described in Sections 8.2.7, 8.2.11 and 8.4.4 following.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.7 Access, Safety and Security (Cont'd)(D) Security Arrangements (Cont'd)

(8) In the event of work stoppages, separate entrances shall be established for the Interconnector, where possible. This shall assure that one party's work stoppage does not impinge upon the other party's normal work operations. Inability to provide such separate entrances shall not render the Telephone Company liable for any claim for damages.

(9) The Interconnector shall be supervised by Telephone Company personnel all times while on Company premises including to and from all multiplexing nodes, EIS interconnection points, cable spaces and conduit spaces. The Interconnector shall pay the supervision rates, in Section 8.4.4 following, for such supervision. Travel time, if required, shall be assessed as applicable. Any supervision, maintenance or testing assistance requiring a call-out of a Company technician shall also be charged as additional labor in accordance with Section 8.4.4 and/or Section 13 following, as appropriate.

(E) Access Rights of the Telephone Company

The Interconnector shall provide emergency access to its multiplexing node at all times to allow the Telephone Company to react to emergencies, to maintain the space (where applicable) and to ensure compliance with OSHA/Telephone Company regulations and standards related to fire, safety, health and environmental safeguards. If conditions permit, notification of such access shall be provided and the Interconnector shall have the option to be present at time of access.

(F) Shared Building Facilities

The reasonable use of shared building facilities (e.g., elevators, unrestricted corridors, designated restrooms, etc.) shall be permitted. The Interconnector's personnel shall be supervised at all times by Telephone Company personnel at the Interconnector's expense, as described in Sections 8.2.7, 8.2.11 and 8.4.4 following.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.7 Access, Safety and Security (Cont'd)

(G) Rules of Conduct

The Interconnector shall ensure that its employees/vendors with access to the Telephone Company serving wire center(s) shall at all times adhere to the rules of conduct established by the Telephone Company for the serving wire center and the Telephone Company's personnel and vendors.

Such rules shall be provided to the Interconnector. The Telephone Company reserves the right to make changes to such procedures and rules to preserve the integrity and operation of the Telephone Company network or facilities or to comply with applicable laws and regulations. The Telephone Company shall provide the Interconnector with written notice of such changes.

8.2.8 Fiber Optic Cable Provisioning and Placement

The Interconnector shall be responsible for supplying the fiber optic cable(s) from the EIS interconnection point (manhole) to the multiplexing node. Sufficient length shall be supplied to accommodate any extra cable required by the Interconnector. The Interconnector shall also be responsible for supplying the fiber optic cable manufacturer's specifications to the Telephone Company.

(A) Installation and Maintenance

- (1) The Telephone Company and/or vendors approved by the Telephone Company shall install the Interconnector's fiber optic cable in Telephone Company duct systems, cable vaults, riser systems and cable runways from the EIS interconnection point to the Interconnector's multiplexing node. Equipment and facilities shall be maintained only upon request of the Interconnector and shall be on a time-sensitive or time-and-materials basis, as described in Section 8.2.11(M) following, for other nonrecurring charges. These also apply to acceptance, cooperative, and end-to-end testing. The rates for supervision of the Interconnector's activities within serving wire

(C)(Y)

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.8 Fiber Optic Cable Provisioning and Placement (Cont'd)(A) Installation and Maintenance (Cont'd)

- (1) (Cont'd)  
centers or other Telephone Company premises are listed in Sections 8.2.11(M) and 8.4.4 following. These rates assume on-site availability of personnel. Travel time, if required, shall be assessed.
- (2) Installation and maintenance shall be provided in a timely and efficient manner consistent with the Telephone Company's treatment of its own facilities.
- (3) The Telephone Company shall specify the routing and design of all support structures for cable and fiber optic cable. The Interconnector shall provide sufficient fiber optic cable at the EIS interconnection point to reach the multiplexing node. The fiber optic cable shall meet National Electrical Code specifications and Telephone Company standards. Only one (1) fiber optic cable shall be placed in each conduit facility.
- (4) The Interconnector shall properly ground the fiber optic cable within the multiplexing node. All splicing within the multiplexing node shall be mechanical to avoid safety hazards.

(B) Isolation and Grounding(1) Fiber Optic Cable

Fiber optic cable shall be electrically isolated and grounded by the Telephone Company and/or vendors approved by the Telephone Company upon entry to the serving wire center cable vault. Isolation shall be achieved by removing any metallic sheath or covering for a length of at least six (6) inches. Grounding shall be achieved by connecting the metallic sheathing of the underground portion of the fiber optic cable to the cable entrance ground bar (CEGB). The remaining portion of the fiber optic cable inside the serving wire center shall be isolated and

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.8 Fiber Optic Cable Provisioning and Placement (Cont'd)

(B) Isolation and Grounding (Cont'd)

(1) Fiber Optic Cable (Cont'd)

grounded to the serving wire center isolation ground bar using National Electrical Code standards. Such isolation and grounding shall be performed by the Telephone Company and/or vendors approved by the Telephone Company. A ground bar for the use of all Interconnectors shall be connected to the serving wire center isolation ground bar at the Interconnector's expense as described in 8.2.6(E) preceding.

Only fiber optic cable with a dielectric central strength member shall be permitted in Telephone Company serving wire centers (Metallic central strength members are not permitted). Maximum outside diameter of the fiber optic cable is 0.75 inches.

(2) Frames, Racks and Equipment

All frames, racks and equipment shall be electrically isolated and grounded by connection to the serving wire center ground bar using National Electrical Code standards. A ground bar for the use of all Interconnectors shall be connected to the serving wire center isolation ground bar at the Interconnector's expense as described in 8.2.6(E) preceding.

(C) Splices

The Telephone Company shall own any splice or splice case made to fiber optic cable in Telephone Company owned ducts, vaults or serving wire centers. If required, the Telephone Company and/or Telephone Company approved vendors shall splice its fiber optic cable to the Interconnector's fiber optic cable using Telephone Company procedures and standards. The Telephone Company and/or vendors approved by the Telephone Company shall maintain the splice and splice case. The Interconnector may test the splice on an end-to-end basis.

(C)(y)

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.8 Fiber Optic Cable Provisioning and Placement (Cont'd)(D) Ducts and Sub-Ducts

The last duct or sub-duct in any duct system is for Telephone Company use only.

(E) EIS Interconnection Point Openings

The Telephone Company and/or vendors approved by the Telephone Company shall provide the opening to the EIS interconnection point.

(C)(y)

(F) The Interconnector's facilities shall be placed, maintained, relocated or removed in accordance with the applicable requirements and specifications of the current editions of the National Electrical Code (NEC), the National Electrical Safety Code (NESC) and rules and regulation of the Occupational Safety and Health Act (OSHA), and any governing authority having jurisdiction. All Interconnector facilities, splices and equipment shall comply with the Telephone Company's Policies and Practices. Where a difference in specification may exist, the more stringent shall apply. The Interconnector's facilities shall not physically, electronically, or inductively interfere with the Telephone Company's or other Interconnector's facilities.

(G) While many of the standards and technical requirements for the Interconnector's fiber optic cable, equipment and facilities are set forth in 8.2.8(B) and 8.2.8(F) preceding, the Telephone Company reserves the right to reasonably specify the type of fiber optic cable, equipment and construction standards reasonably required in situations not otherwise covered in this Tariff. In such cases, the Telephone Company shall at its discretion furnish to the Interconnector written material which shall specify and explain the required construction.

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.8 Fiber Optic Cable Provisioning and Placement (Cont'd)

- (H) All installation work between the EIS interconnection point and the multiplexing node shall be performed by the Telephone Company and/or vendors approved by the Telephone Company. This work shall be performed in a timely and efficient manner consistent with the Telephone Company's treatment of its own facilities. All restoration and maintenance work between the EIS interconnection point and the multiplexing node shall be performed by the Telephone Company and/or vendors approved by the Telephone Company at the Interconnector's expense. This work shall be performed in a timely and efficient manner consistent with the Telephone Company's treatment of its own facilities. Cable maintenance or rearrangement nonrecurring charges, as appropriate shall be assessed. See Section 8.2.11(M)(4) following. (N)(y)  
(N)(y)  
(C)(y)
- (I) The Telephone Company shall provide fiber restoration, based on existing Telephone Company restoration practices in effect at the time.
- (J) The Telephone Company shall provide emergency restoration of all active fibers, based on site awareness of the damaged fiber.
- (K) The Telephone Company shall require all active fibers to be shut down (dark) at time of restoration.
- (L) The Telephone Company shall in its sole judgment, use the most appropriate splicing and mechanical equipment available to restoration crews.
- (M) The Interconnector shall meet all environmental and Occupational Safety and Health Act (OSHA) requirements at the emergency site before the Telephone Company shall commence restoration.
- (N) The Telephone Company shall provide knowledgeable management personnel support on site within two (2) hours after the site of any failure is defined.
- (O) Restoration is defined as repair of fiber integrity that shall provide a workable network. Such network may not have the same engineered specifications as would apply to the original fiber.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.8 Fiber Optic Cable Provisioning and Placement (Cont'd)(P) Temporary Staging Area

The Interconnector shall have the right to use a portion of the serving wire center(s) and loading areas, if available, on a temporary basis during the Interconnector's equipment installation work in the multiplexing node. The Interconnector is responsible for protecting the Telephone Company's equipment and serving wire center within the staging area and along the staging route. The Interconnector shall store equipment and materials within the multiplexing node when work is not in progress (e.g., overnight). No storing of equipment and materials overnight shall be permitted in the staging area(s). The Interconnector shall meet all of the Telephone Company fire, safety and housekeeping requirements. This temporary staging area shall be vacated and delivered to the Telephone Company in a broom-clean condition upon completion of installation work.

8.2.9 Point of Termination(A) Description

The Telephone Company shall designate digital signal cross-connect (DSX) panel and/or distribution block locations on an Intermediate Distribution Frame (IDF) as the Point of Termination (POT) for fiber optic cables extending from the multiplexing node and used for interface with the Telephone Company network. This POT shall be the point of physical demarcation between the Interconnector's services and the Telephone Company's services. The Telephone Company and/or vendors approved by the Telephone Company shall provide, install and repair all fiber optic cables, other cables, racks and serving wire center termination equipment necessary to provide the interface required for connection to the Telephone Company network on the Telephone Company side of the multiplexing node. The Interconnector shall pay any costs incurred by the Telephone Company whenever the Telephone Company personnel are required to identify a trouble as being on the Interconnector's side of the POT or to perform maintenance on equipment on the Interconnector's side of the POT in the form of other nonrecurring charges, described in Section 8.2.11(M) following. More than one (1) POT may exist in a serving wire center. (C)(y)

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.9 Point of Termination (Cont'd)(B) Maintenance

(T)(Y)

The Telephone Company and/or vendors approved by the Telephone Company shall repair, at the Interconnector's expense, all fiber optic cables, other cables, racks, and termination equipment necessary to provide the interface required for connection to the Telephone Company's network between the POT and the multiplexing node.

(C)(Y)

8.2.10 Manhole and Conduit Facilities(A) EIS Interconnection Point

The Telephone Company reserves the right to prohibit all equipment and facilities, other than fiber optic cable, from its EIS interconnection point (e.g., manholes). No splicing shall be permitted at the EIS interconnection point, the Telephone Company cable vault or any location other than the multiplexing node. The Interconnector shall provide a length of underground fiber optic cable at the EIS interconnection point specified by the Telephone Company of sufficient length to be pulled through the serving wire center conduit and the serving wire center cable vault and into the multiplexing node, without the need for splicing. The Interconnector is responsible for the placement of the fiber optic facility to the EIS interconnection point. This installation shall be coordinated with and inspected by the Telephone Company. The Interconnector shall be accompanied by a qualified Telephone Company representative in all EIS interconnection points at the Interconnector's expense as described in Section 8.2.7 preceding and 8.2.11(M) and 8.4.4 following. If the Telephone Company has more than one (1) cable entrance to the cable vault of a given serving wire center, two (2) of those entrances shall be designated by the Telephone Company as available to Interconnectors except where all entrances but one are at capacity.

(T)(Y)

(B) Conduit Space

The Telephone Company and/or vendors approved by the Telephone Company shall install the fiber optic cable provided by the Interconnector in the conduit space. The

(C)(Y)

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.10 Manhole and Conduit Facilities (Cont'd)(B) Conduit Space (Cont'd)

Interconnector shall be required to provide a usage forecast for planning and duct allocation purposes as stated in Section 8.2.11(F) following. The Telephone Company may provide shared conduit with dedicated inner or sub-duct. The Interconnector shall not be permitted to reserve space in the serving wire center conduit. If new conduit is required, the Telephone Company shall negotiate with the Interconnector to determine a mutually agreeable course of action to deal with the specific location. The Telephone Company reserves the right to manage its own serving wire center conduit requirements and to reserve vacant space for facility additions planned within three years as its primary use.

(C) Cable Space - Serving Wire Center Cable Vault

The Telephone Company shall provide cable trays within the Telephone Company cable vault to support the Interconnector's fiber optic cable from the vault entrance to the riser conduit described in 8.2.10(D) following. The Telephone Company shall identify all Interconnector facilities accordingly. The Telephone Company and/or vendors approved by the Telephone Company shall install the Interconnector-provided fiber optic cable in the vault. To avoid unnecessary reinforcements or rearrangements, the Interconnector shall size the fiber optic facilities to meet three-year forecasted demand, where feasible.

(C)(y)

(C)(y)

(D) Cable Space - Serving Wire Center Risers and Cable Racks

The Telephone Company shall provide space for installing electrical metallic tubing (EMT) between the Telephone Company cable vault and the multiplexing node. Where deemed necessary by the Telephone Company, pull boxes and/or metallic flexible tubing shall be installed to allow a secured and continuous path. These facilities shall be installed by the Telephone Company and/or

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.10 Manhole and Conduit Facilities (Cont'd)(D) Cable Space - Serving Wire Center Risers and Cable Racks  
(Cont'd)

vendors approved by the Telephone Company with no more (C)(y)  
than one Interconnector occupying a single EMT. The  
Telephone Company and/or vendors approved by the Telephone  
Company shall install the Interconnector-provided fiber  
optic cable in the conduit between the cable vault and the (C)(y)  
multiplexing node. Fiber optic cables shall comply with  
the Telephone Company Policies and Practices relating to  
fire, safety, health, environmental and network safe-  
guards. Racks, frames, equipment and fiber optic cables  
shall be isolated and grounded within the multiplexing  
node. The Telephone Company and the Interconnector shall  
jointly determine the length of fiber optic cable needed  
to reach from the EIS interconnection point to the  
Interconnector's multiplexing node. Any additional length  
of fiber optic cable needed in the multiplexing node by  
the Interconnector must be allowed for in calculating the  
required length. Special arrangements shall be agreed  
upon to meet unusual conditions. Added or special  
rearrangements requested by the Interconnector may result  
in additional charges to the Interconnector. Any such  
charges shall be filed in this tariff. All maintenance of  
fiber optic cables shall be performed by the Telephone  
Company and/or vendors approved by the Telephone Company  
at the Interconnector's expense as a cable maintenance  
nonrecurring charge described in Section 8.2.11(M)  
following.

8.2.11 Initiating Service(A) Contact Point

Initial requests for Physical Collocation EIS service  
shall be made to the Telephone Company's Interexchange  
Customer Service Center (ICSC). ICSC shall send applica-  
tion and information request forms to the Interconnector  
for detailed technical information.

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(B) Advance Payment

Subject to space availability, Physical Collocation EIS shall be provided to all Interconnectors on a first come, first served basis. The Telephone Company shall require an Advance Payment, listed in Section 8.4.1 following, per serving wire center per collocation request.

(C)(y)  
(C)(y)

Receipt of the advance payment shall determine the order of priority on Interconnector requests. In those instances where space becomes a limited resource, the Telephone Company reserves the right to petition the Federal Communication Commission for approval of any allocation plan necessary to accommodate bona fide Interconnectors.

(E) Deposits

Deposit requirements (if required) are listed in Section 2.4.1 preceding, of this tariff.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.11 Initiating Service (Cont'd)(F) Forecasts

Annually, the Interconnector shall provide the Telephone Company with a forecast of conduit space, floor space, cable space, power usage and Cross-connect usage for the next three (3) years for planning purposes. In the event such a forecast is not met, no obligation or penalty shall be incurred by the Interconnector or the Telephone Company in meeting such a forecast.

(G) Inter-Interconnector Facilities

An Interconnector shall not interconnect equipment or facilities in its multiplexing node with equipment or facilities within another Interconnector's multiplexing node by any means.

- (H) Upon receipt of the Interconnector's advance payment, the Telephone Company shall make available to the Interconnector any Telephone Company-specific documentation requested by the Interconnector.

The Interconnector is responsible for obtaining all other specifications. The Telephone Company and the Interconnector shall work cooperatively to develop an equipment layout that complies with the specifications described in Sections 8.2.6(B) and 8.2.6(H) preceding, to be placed within the multiplexing node, in order to minimize space requirements.

(I) Pre-Construction Survey and Design and Construction

- (1) The Telephone Company shall conduct a Pre-Construction Survey for each Interconnector request for floor space, cable space, conduit space and power for which occupancy is requested to determine the availability of such spaces to accommodate the Interconnector's facilities. In determining the availability of power and space in the Telephone Company's conduit system and serving wire center, the Telephone Company shall consider, and give preference to, its present and foreseeable needs for such spaces in order to fulfill its obligations to provide its tariffed services to its other customers.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(I) Pre-Construction Survey and Design and Construction  
(Cont'd)

- (2) The Telephone Company shall use best efforts to notify the Interconnector within eight (8) business days whether or not the request can be met. If space is available, the Telephone Company shall provide the Interconnector a proposed Collocation Schedule for Physical Collocation EIS. This schedule shall contain the time intervals (not to exceed 120 days) for preparation of conduit space, cable space and floor space.
- (3) The Interconnector shall have thirty (30) days from the receipt of the collocation schedule to pay the Advance Payment (described in Section 8.2.11(B) preceding) and agree in writing to the Collocation Schedule.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(I) Pre-Construction Survey and Design and Construction  
(Cont'd)

- (4) The estimated interval in the collocation schedule (not to exceed 120 days) for turnover of space(s) shall commence from the payment by the Interconnector of the Advance Payment and receipt of the written agreement to the Collocation Schedule.

(J) Removals, Relocations and Rearrangements

- (1) Upon termination of the Interconnector's use of its multiplexing node or any portion thereof, the Interconnector shall remove its equipment from that space within thirty (30) days. Upon removal by the Interconnector of all its equipment from the multiplexing node or portion thereof, the Interconnector shall restore that multiplexing node to its original condition at time of occupancy. Due to physical and technical constraints, removal of any cable is at the Telephone Company's option.
- (2) If it becomes necessary in the Telephone Company's reasonable judgment in order to fulfill its obligations under any Law, and there are no other reasonable alternatives, the Telephone Company shall require the Interconnector to move from its multiplexing node to a multiplexing node in another location and/or reroute any of the Interconnector's facilities within the same serving wire center. The Telephone Company will make all reasonable efforts to minimize disruption of the Interconnectors' services. If the Telephone Company relocates the Interconnector to either a central office at a new location or to a new location within the central office for reasons other than an emergency, the Telephone Company will provide the Interconnector with as least 180 days' advance written notice. The Telephone Company shall bear only the costs of relocating the multiplexing node enclosure, point of termination and associated Telephone Company cabling. The Interconnector shall be responsible for relocating its equipment and facilities and any cost associated with the Telephone Company's requirement to reroute and/or replace the Interconnector facility cable. The Telephone Company and the Interconnector shall work together in good faith to minimize any

(y) Filed under authority of FCC 97-208.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.11 Initiating Service (Cont'd)(J) Removals, Relocations and Rearrangements (Cont'd)

- (2) (Cont'd)  
disruption of the Interconnector's services as a result of such relocation.
- (3) Should the Interconnector wish to move equipment from one location within the collocation space to another, the Interconnector shall be responsible for removing and transporting its equipment to the new site and installing it. The Telephone Company shall treat the relocation as a removal and a new installation of Physical Collocation EIS.
- (4) Should the Telephone Company need to install additional facilities in any conduit system in which the Interconnector occupies conduit space for the purpose of meeting its own service requirements or for providing for another Interconnector, the Telephone Company shall, after notifying the Interconnector of the additional occupancy, rearrange the Interconnector's facilities in the conduit system as reasonably determined by the Telephone Company so that the additional facilities of the Telephone Company, or other Interconnector, may be accommodated. The Telephone Company and the Interconnector shall work together in good faith to minimize any disruption of the Interconnector's service as a result of such relocation. The Interconnector shall have no claim against the Telephone Company for any loss of business from full or partial interruption or interference due to any facility relocation.
- (5) In an emergency, the Telephone Company shall use reasonable efforts to notify the Interconnector, but nevertheless may rearrange the Interconnector's facilities occupying a conduit, manhole, cable vault, riser system or cable support structure without prior notification. Such rearrangement shall be at the Interconnector's expense, if such emergency is a result of the Interconnector's occupancy of space(s) under Physical Collocation EIS Service or as a result of any act or omission on the part of the Interconnector, its employees, agents or vendors.

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.11 Initiating Service (Cont'd)(K) Additions

Additions to an existing Interconnector's Physical Collocation EIS shall be treated the same as a request for initial service. All terms and conditions regarding the ordering of service shall apply. All appropriate nonrecurring charges shall apply. See Section 8.2.11(M) following. Upon Telephone Company receipt of a request by an Interconnector for an additional fiber optic facility from the EIS interconnection point to the multiplexing node, the Telephone Company shall ask the Interconnector to replace existing fiber optic cable(s) by combining the new requirement with the existing fiber optic cable requirement and extending one (1) fiber optic cable from the EIS interconnection point to the multiplexing node. Any splices required by the Interconnector to achieve this requisite will be completed by the Interconnector outside the Telephone Company facilities (manhole, conduit, vault or building). Upon completion of installation of the new consolidated Interconnector fiber optic cable from the EIS interconnection point to the multiplexing node, under the same terms of Section 8.2.8(A) preceding, the Interconnector shall be responsible for the transfer of all working facilities from the existing fiber optic cable to the new fiber optic cable at no cost to the Telephone Company.

(C)(y)

After receipt of written notification from the Interconnector that the existing fiber optic cable(s) have been removed from service and physically cut at the multiplexing node the Telephone Company shall (at its option) remove said fiber optic cables(s) from the EIS interconnection point to the multiplexing node.

(L) Modifications

Where the Interconnector intends to modify, move, replace or add to equipment or facilities within or about the multiplexing node and requires special consideration (e.g., use of freight elevators, loading dock, staging area, etc.), the Interconnector shall request and receive written consent from the Telephone Company. Such consent shall not be unreasonably withheld.

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(M) Nonrecurring Charges

Nonrecurring charges are those costs of providing Physical Collocation EIS that are not monthly recurring costs. (C)(y)  
(N)(y)  
If an initial Interconnector has paid a nonrecurring charge for an asset and is succeeded by another Interconnector who uses that asset, the initial Interconnector will be credited the remaining undepreciated amount of the equipment and the cage construction cost upon occupancy by the subsequent Interconnector. The subsequent Interconnector will be responsible for paying the remaining undepreciated amount of the cost. If the Telephone Company uses an asset for which an Interconnector paid a nonrecurring charge, the Telephone Company will make a pro rata refund to the Interconnector. There are five (5) nonrecurring charges specific to Physical Collocation EIS: (N)(y)

- (1) Construction - This charge covers the costs for design, engineering and construction of the Interconnector's collocation space and the multiplexing node enclosure (if any). (T)(y)  
(D)(y)

(D)(y)

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ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(M) Nonrecurring Charges (Cont'd)

- (2) Entrance Facility Installation - This charge covers the cost of installing the Interconnector provided fiber optic cable from the EIS interconnection point to the multiplexing node. Entrance Facility installation costs shall also be assessed for the installation of the additional Interconnector facilities subsequent to the initial installation of Physical Collocation EIS. (T)(y) (C)(y)
- (3) Supervision - This charge covers the cost of supervising Interconnector personnel while on Telephone Company premises. Supervision is described in Section 8.2.7 preceding, and supervision rates are listed in Section 8.4.4 following.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.2 Regulations (Cont'd)8.2.11 Initiating Service (Cont'd)(M) Nonrecurring Charges (Cont'd)

- (4) Cable Maintenance and Rearrangement - This charge covers such activities as maintenance and repair of installed Interconnector fiber optic cable and rearrangement of installed Interconnector fiber optic cable. Telephone Company costs shall be calculated from the additional labor rates in Section 13 following. Any material items expended and any subcontractor costs incurred shall also be included. All these costs shall be included in providing Cable Maintenance and Rearrangement.
- (5) Other - This charge covers all requests by an Interconnector for the Telephone Company to provide a service not covered by a specific recurring or nonrecurring charge. Telephone Company costs shall be calculated from the additional labor rates in Section 13 following. Any material items expended and any subcontractor costs incurred shall also be included. All these costs shall be included in providing the requested service. Any other per person costs of Telephone Company personnel shall be at the loaded wage rate for the job title. These other per person costs are not specified in this Tariff due to the inability of the Telephone Company to predict what services an Interconnector might need. Such labor rates shall be filed in this tariff upon their request by an Interconnector.

(N) Reselling Space or Sub-leasing

The Interconnector shall not provide or make space available to any third party within any of the Telephone Company spaces (e.g., EIS interconnection point, conduit space, cable space, multiplexing node) provided to the Interconnector under Physical Collocation EIS, whether by sale, sub-lease or other assignment or transfer of any right or interest in such Telephone Company spaces.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.2 Regulations (Cont'd)

8.2.11 Initiating Service (Cont'd)

(O) Successors in Interest and Assigns

All obligations and duties of any Interconnector under this tariff shall be binding on all successors in interest and assigns of said Interconnector.

8.2.12 Confidential Information

The Telephone Company shall hold in confidence information provided to it by the Interconnector in the process of providing Physical Collocation EIS and information known to the Telephone Company as a result of the interconnection of equipment contained in multiplexing node to the Telephone Company facilities and services. The Interconnector shall hold in confidence information provided to it by the Telephone Company in the process of providing Physical Collocation EIS and information known to the Interconnector as a result of its presence in the Telephone Company spaces. Neither Party (Telephone Company or Interconnector) is obligated to hold in confidence information that:

- \* Is already known to the Party free of any obligation to keep confidential:
- \* Was or becomes publicly available by other than unauthorized disclosure; or
- \* Was rightfully obtained from a third party not obligated to hold such information in confidence.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.4 Rate Structure and Rates

8.4.1 Rate Structure

- (A) There are four (4) monthly rate elements for Physical Collocation of Expanded Interconnection Service:

(C)(y)  
(C)(y)

Floor Space  
Conduit Facilities  
Power Feed  
Cross-connect

Floor space, conduit facilities and power feed rates may vary by serving wire center.

(T)(y)

The cross-connect rates are shown in Section 8.4.5 following.

- (B) Floor space - This covers costs of preparation and provisioning of the physical floor space and construction of an enclosure (if any).
- (C) Conduit facilities - This covers the per fiber optic cable costs of both the conduit space and the cable space. Some of the items included are: EIS interconnection point (e.g. the manhole); the conduit to the serving wire center vault; any splices; the riser conduit and cable runway to the collocation space.
- (D) Power feed - This covers the per equipment frame or rack cost of 48 volt DC power and cabling and power distribution panels. A minimum of two (2) power feeds, at fifteen (15) amperes maximum each, are required for the initial 100 square foot multiplexing node.
- (E) Advance payment - Upon request for a multiplexing node or additions thereto but prior to commencement of any activity, the Interconnector shall provide the Telephone Company with an advance payment representing 50 percent of the Construction nonrecurring rate as set forth in Section 8.4.2 following, plus 50 percent of the Entrance Facility Installation nonrecurring rate as set forth in Section 8.4.2 following.

(T)(y)  
(C)(y)

(C)(y)

(y) Filed under authority of FCC 97-208.

ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)

8.4 Rate Structure and Rates (Cont'd)

8.4.1 Rate Structure (Cont'd)

(D)(y)

(D)(y)

(H) The Interconnector shall provide the Telephone Company with a resale certificate for each customer of the Interconnector for exemption of sales and federal excise taxes.

(I) Billing for the recurring rates, shown in Sections 8.4.2 following, shall commence on the occupancy date as specified in Section 8.2.6(G) preceding.

(C)(y)

(J) The Telephone Company may change the rates for Physical Collocation EIS at any time.

(K) The Interconnector shall reimburse the Telephone Company for all reasonable repair or restoration costs incurred by the Telephone Company associated with damage or destruction caused by the Interconnector's personnel, agents, suppliers, contractors or visitors.

(L) Cross-connect - This covers the cost of the connection between the Interconnector's multiplexing node and the Telephone Company's network facilities.

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## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.4 Rate Structure and Rates (Cont'd)8.4.2 Physical Collocation EIS - Serving Wire Center Specific Rates

- (A) Floor space - 100 square foot standard - per square foot per month:

Wire Center Name	CLLI Code	USOC	Rate	(R)(Y)
1440 "M" St. Lincoln, NE	LNCLNEXL	FLS	\$4.38	

- (B) Conduit facilities - EIS Interconnection point to multiplexing node - per conduit facility per month:

Wire Center Name	CLLI Code	USOC	Rate	(R)(Y)
1440 "M" St. Lincoln, NE	LNCLNEXL	CND	\$123.19	

- (C) 48 Volt power feed - Fifteen (15) amperes maximum each - per equipment frame or rack per month. A minimum of two (2) for the initial 100 square feet of space:

Wire Center Name	CLLI Code	USOC	Rate	(N)(Y)
1440 "M" St. Lincoln, NE	LNCLNEXL	PWR	\$71.06	

- (D) Construction - Preparation of the central office space for physical collocation and construction of the Interconnector's multiplexing node enclosure - per serving wire center per collocation request:

Wire Center Name	CLLI Code	USOC	Nonrecurring Rate
1440 "M" St. Lincoln, NE	LNCLNEXL	CON	\$5,167.05

- (E) Entrance Facility Installation - Installation of an interconnection arrangement from the manhole to the Interconnector's multiplexing node - per serving wire center per collocation request:

Wire Center Name	CLLI Code	USOC	Nonrecurring Rate	(N)(Y)
1440 "M" St. Lincoln, NE	LNCLNEXL	EFI	\$2,249.10	

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8. Expanded Interconnection Service (Cont'd)8.4 Rate Structure and Rates (Cont'd)8.4.4 Supervision

The following rates shall be assessed for supervision of Interconnector personnel while on Telephone Company premises. Rates are per hour or fraction thereof. A minimum of two (2) hours per instance of Interconnector supervision shall be assessed. A call-out of a Telephone Company employee at a time not coinciding with the employee's scheduled work period (e.g., 7:00 a.m. to 4:00 p.m.) shall be subject to a minimum charge of four (4) hours.

Time Periods

Basic Time, normally scheduled working hours, per supervisor, per hour.

Office Name	CLLI Code	Job Title	USOC	Rate
1440 "M" St. Lincoln, NE	LNCLNEXL	Network Technician	ALE	\$39.60

Overtime, outside normally scheduled working hours on a schedule work day, per supervisor, per hour.

Office Name	CLLI Code	Job Title	USOC	Rate
1440 "M" St. Lincoln, NE	LNCLNEXL	Network Technician	ALE	\$59.40

Premium Time, outside scheduled work day, per supervisor, per hour.

Office Name	CLLI Code	Job Title	USOC	Rate
1440 "M" St. Lincoln, NE	LNCLNEXL	Network Technician	ALE	\$79.20

## ACCESS SERVICE

8. Expanded Interconnection Service (Cont'd)8.4 Rate Structure and Rates (Cont'd)8.4.5 Cross-connect Rate - each per month:

<u>Grade of Service</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
High Capacity			
- DS1 - 1.544 Mbps	TYLDX	\$ 3.07 (R)(y)	\$0.00
- DS3 - 44.736 Mbps	TYLEX	\$80.76 (R)(y)	\$0.00

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## ACCESS SERVICE

9. Advanced Communications Networks

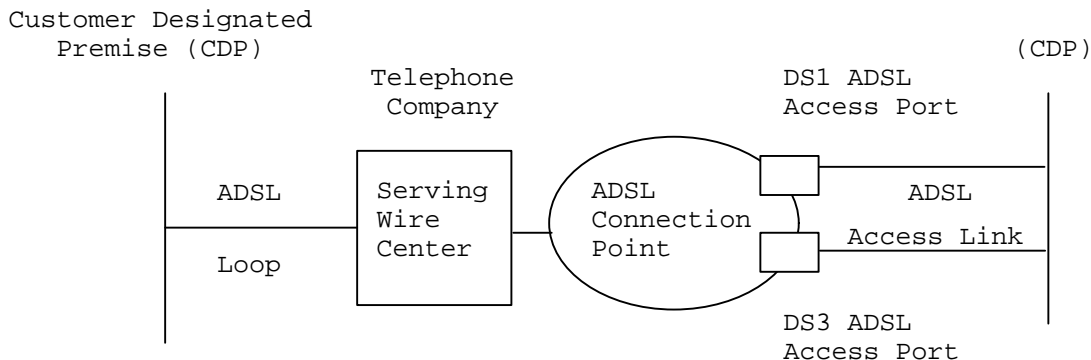
(N)

9.1 Digital Subscriber Line Service9.1.1 General

Digital Subscriber Line (DSL) service provides high-speed connections over existing copper facilities which are also used to provision customers' local exchange service. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this tariff.

9.2 ADSL Service9.2.1 Service Description

This section contains the rules and regulations pertaining to the provision of Asymmetrical Digital Subscriber Line (ADSL) Service. ADSL service is an access data technology service offered in speed levels of 384 Kbps Down/272 Kbps Up, 768 Kbps Down/680 Kbps Up, 1.2 Mbps Down/1.08 Mbps Up. The "up" speeds represent "transmission speeds in kilobits or megabits", from the customer designated premise (CDP) to the Telephone Company's ADSL connection point, while the "down" speeds represent "transmission speeds in kilobits or megabits", from the Telephone Company's ADSL connection point to the CDP. The connection point is the aggregation point designated by the Telephone Company for connecting multiple Telephone Company serving wire centers of ADSL terminations to other Telephone Company provided network interface services.



(N)



## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.3 Service Provisioning9.3.1 ADSL Loop

The ADSL Loop is provisioned over existing Telephone Company copper facilities and transported to the Telephone Company's backbone network. The ADSL Loop provides a connection from the CDP to the ADSL connection point.

The rates and charges for the ADSL Loop are in addition to basic local exchange service. A customer may use their existing voice channels, or additional voice channels may be purchased by the customer, as set forth in the Local Exchange Tariff.

The Telephone Company will qualify the ADSL Service between the CDP and the serving wire center. The purpose of qualification is to determine the availability and suitability of existing Telephone Company copper facilities to provide the service. The Telephone Company will not provision this service on facilities which are not suitable for ADSL. See Section 9.3.4 following.

ADSL will be provided subject to the availability and limitations of Telephone Company wire centers and outside plant facilities and is only available where technical capabilities permit. Downstream data rates depend on a number of factors, including, but not limited to (1) the distance from the CDP to the serving wire center, (2) the type of copper facility (wire gauge) and (3) the physical plant.

Each customer may select up to four Permanent Virtual Connections (PVC). Monthly PVC charges as set forth in Section 9.4 following shall apply for each PVC as applicable. In addition, a nonrecurring charge, as set forth in Section 9.4 following, shall apply for each PVC installation.

The Telephone Company does not undertake to originate data, but offers the use of its service components, where available, to customers for the purpose of transporting customer-originated data.

9.3.2 ADSL Access

The ADSL Access Port charges are for connection to the ADSL Service only.

(N)

## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.3 Service Provisioning (Cont'd)9.3.2 ADSL Access (Cont'd)

The Access Link connects to the ADSL connection point at an ADSL Access Port, and the appropriate DS1 or DS3 ADSL Access Port charge applies. The DS1 and DS3 ADSL Access Port charges are available in Section 9.4 following.

The Access Link is a physical connection between the ADSL Access Port and the CDP. DS1 and DS3 termination rates that apply to each access link are appropriately tarified in the FCC No. 1 Access Tariff Service, Section 7. If the equipped ADSL central office which serves the customer is not located with the ADSL connection point, DS1 and DS3 transport rates that apply between the ADSL connection point and the central office serving the CDP are appropriately tarified in the FCC No. 1 Access Tariff Service, Section 7.

9.3.3 Responsibility of the Telephone Company

The Telephone Company will provision and maintain ADSL service for the customer up to the protector.

The Telephone Company will advise the customer of the equipment necessary to support ADSL Service.

9.3.4 Rights of the Telephone Company

The Telephone Company will not provision ADSL service if the Telephone Company reasonably determines that (a) it is not technically feasible over existing facilities or (b) it will cause interference problems with existing services.

Equipment at the CDP must meet Telephone Company specifications.

During the Telephone Company's network maintenance and software updates period, it may be necessary to place the ADSL wire center out of service. The Telephone Company reserves the right to temporarily interrupt ADSL Service at other times in emergency situations.

(N)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.3 Service Provisioning (Cont'd)

9.3.5 Responsibility of the Customer

The customer is responsible for providing compatible Customer Provided Equipment (CPE) that is used for connection to ADSL Service.

The customer is responsible for providing the Telephone Company with the necessary information to provision ADSL Service.

The customer ordering ADSL Service on behalf of its subscriber(s) must obtain a letter of agency.

The customer will be responsible for obtaining permission from its subscriber(s) for the Telephone Company's agents or employees to enter the customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or upon termination of the service, removing the service components of the Telephone Company.

(N)

## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.4 Rate Regulations9.4.1 Rate Elements

A nonrecurring charge and a monthly rate apply for the installation of ADSL Service. A nonrecurring charge is also applicable when making changes, i.e., bandwidth, access provider, move.

ADSL Service is available in three service level packages, and is based on the "downstream and upstream" speeds chosen by the customer. A customer may select from multiple packages; however, the downstream and upstream speeds may not be substituted within a service level, as the packages are defined by the downstream and upstream speeds.

	<u>Downstream</u>	<u>Upstream</u>
ADSL Tier 1	384 Kbps	272 Kbps
ADSL Tier 2	768 Kbps	680 Kbps
ADSL Tier 3	1.2 Mbps	1.08 Mbps

Data speeds set forth above are peak speeds. Actual speeds may be affected by loop distance and other factors, therefore, are not guaranteed.

9.4.2 Term Discounts

ADSL Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 12 months (1 year) or 24 months (2 years).

The minimum service period on a monthly rate basis is one month and for all Term Discount plans is twelve months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customers that subscribe to the Term Discount plan for 12 months or 24 months, the Term Discount Rates as set forth in 9.4 following will be frozen from Company initiated increases, for the entire discount period of the rates in effect at the beginning of the Term Discount period.

If a term discount rate decrease occurs during the term of an existing Term Discount plan, the decreased rate will be applied automatically to the remainder of the current Term Discount period.

(N)

## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.4 Rate Regulations (Cont'd)9.4.2 Term Discounts (Cont'd)

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount Plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

9.4.3 Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan. A Service Charge as set forth in 9.4 following will apply for each upgrade, but without incurring discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a one-year plan commitment period may be upgraded to a new one-year plan or two-year plan commitment. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all services that are upgraded.

9.4.4 Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period.

Additionally, discontinuance charges of fifty percent of the total undiscounted monthly ADSL charges will apply to the remaining portion of the Term Discount period.

(N)

## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.4 Rate Regulations (Cont'd)9.4.4 Discontinuance of Service (Cont'd)

Should the customer choose to discontinue service ordered under a Term Discount plan after the minimum service period but before the completion of the Term Discount period, discontinuance charges will apply. Discontinuance charges of fifty percent for ADSL Service, of the total undiscounted monthly charges will apply to the remaining portion of the Term Discount period. For example, a customer has ADSL Service which it chooses to discontinue after 16 months into a 24 month service term, the discontinuance charges would be 0.50 times 8 months times the undiscounted monthly rate for that service.

A. Rates and Charges1. Standard Arrangements

## (a) ADSL Loop

	<u>Monthly Rate</u>	<u>Nonrecurring</u>
ADSL Tier 1	\$ 37.75	\$76.00
ADSL Tier 2	\$ 57.75	\$76.00
ADSL Tier 3	\$117.75	\$76.00

## (1) ADSL Loop - One Year

	<u>Monthly Rate</u>	<u>Nonrecurring</u>
ADSL Tier 1	\$ 36.75	\$76.00
ADSL Tier 2	\$ 55.75	\$76.00
ADSL Tier 3	\$113.75	\$76.00

## (2) ADSL Loop - Two Year

	<u>Monthly Rate</u>	<u>Nonrecurring</u>
ADSL Tier 1	\$ 35.75	\$76.00
ADSL Tier 2	\$ 53.75	\$76.00
ADSL Tier 3	\$109.75	\$76.00

(N)

## ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.4 Rate Regulations (Cont'd)

## B. PVC Charge

	<u>Monthly Rate</u>	<u>Nonrecurring</u>
• 1st PVC	\$ 2.00	\$ 24.00
• 2nd PVC	\$ 2.00	\$ 24.00
• 3rd PVC	\$ 2.00	\$ 24.00
• 4th PVC	\$ 2.00	\$ 24.00

## C. Service Charge

a. Changes to PVC	\$ 24.00
b. Changes to ADSL Loop	\$ 76.00

D. ADSL Access,  
Port

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring</u>
a. DS1 Port, per port			
• Month-to-Month	ATM	\$295.00	\$285.00
b. DS3 Port, per port			
• Month-to-Month	ATM	\$555.00	\$285.00
• 36-Month	ATM	\$515.00	\$285.00
• 60-Month	ATM	\$460.00	\$285.00

(N)

## ACCESS SERVICE

10. Special Federal Government Access Services10.1 General

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made, or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company or customer.

10.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

- State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").



ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.2 Emergency Conditions (Cont'd)

- Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)
- Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.
- The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.
- Political unrest in foreign countries which affect the national interest.
- Presidential service.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.3 Safeguarding of Service

10.3.1 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, in accordance with 2.1.2(B) preceding and within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

10.4 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

## ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)10.5 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10.5.1 Type and Description(A) Voice Grade Special Access Services(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz.  
Furnished for two-point secure communications on two-wire or four-wire metallic facilities between an IC premises and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz  
13 dB at 100 Hz  
9 dB at 1,000 Hz  
20 dB at 10,000 Hz  
30 dB at 50,000 Hz

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I  
(Cont'd)

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz  
± 1 dB between 1,000 Hz and 40,000 Hz  
± 2 dB between 10 Hz and 50,000 Hz  
(+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communication Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises switch and an end user's premises. Services are conditioned as follows:

G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's premises to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two IC premises switches. Services are conditioned as follows:

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Service

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty microseconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

10.5.2 Mileage Application

Mileage, when used for rate application between the serving wire centers of two customer designated premises, shall be determined by the V and H Coordinates Method as set forth in EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 4 and administered as set forth in 7.2.5 preceding.

## ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)10.5 Service Offerings to the Federal Government (Cont'd)10.5.3 Rates and Charges(A) Voice Grade Special Access Service

The provision of T-3 and G conditioned services contemplates station and tandem switching operations, using customer provided equipment, as well as Special Access Service. Separate narrowband or voice grade services, where required by the customer provided equipment or switching operation, are furnished in accordance with the applicable sections of this tariff.

Voice Grade Secure Communications	USOC	Monthly Nonrecurring Rates	Termination Charges	Charges
--------------------------------------	------	-------------------------------	------------------------	---------

Type I, each T-3 Conditioning, GCA++		ICB rates and charges apply		
---	--	-----------------------------	--	--

Additional Conditioning, per service termination	GTO++	ICB rates and charges apply		
---	-------	-----------------------------	--	--

Type II, each G-1 Conditioning, GCB++		ICB rates and charges apply		
--	--	-----------------------------	--	--

Type III, each G-2 Conditioning, GCC++		ICB rates and charges apply		
---	--	-----------------------------	--	--

Additional Conditioning, per service termination	G20++	ICB rates and charges apply		
---	-------	-----------------------------	--	--

## ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)10.5 Service Offerings to the Federal Government (Cont'd)10.5.3 Rates and Charges (Cont'd)(A) Voice Grade Special Access Service (Cont'd)

<u>Voice Grade Secure</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
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Type IV, each  
G-3 Conditioning, GCD++ ICB rates and charges apply

Additional  
Conditioning,  
per service  
termination G30++ ICB rates and charges apply

(B) Wideband Digital Special Access Service

<u>Wideband Secure</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
------------------------	-------------	----------------------	-----------------------------	----------------------------

Type I, each GW1++ ICB rates and charges apply

Type II, each GW2++ ICB rates and charges apply

Type III, each GW3++ ICB rates and charges apply

(C) Move Charges

- (1) When service without a termination charge associated with it, as set forth in (A) and (B) preceding, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.



ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.3 Rates and Charges (Cont'd)

(C) Move Charges (Cont'd)

(2) When service with a termination charge associated with it, as set forth in (A) and (B) preceding, is moved and is reinstalled at a new location, the customer may elect:

- to pay the unexpired portion of the termination charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new termination charge for such service at the new location, or
- to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

## ACCESS SERVICE

11. Special Facilities Routing of Access Services11.1 Description of Special Facilities Routing of Access Services

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more services must be provided over not more than two different physical routes.

11.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

11.1.3 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in 6. preceding; Metallic, Telegraph Grade and Voice Grade Special Access Services as set forth in 7.5, 7.6 and 7.7 preceding and Special Federal Government Access Services as set forth in 10.5 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in 6. preceding; Voice Grade Special Access Services as set forth in 7.7 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

## ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)11.1 Description of Special Facilities Routing of Access Services (Cont'd)

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

11.2 Rates and Charges for Special Facilities Routing of Access Service

The rates and charges for Special Facilities Routing of Access Services are as follows:

11.2.1 Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis.

USOC

SYD++

11.2.2 Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis.

USOC

SYA++

ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)

11.2 Rates and Charges for Special Facilities Routing of Access Service  
(Cont'd)

11.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

USOC

SYB++

11.2.4 Cable-Only Facilities

For each service provided in accordance with 11.1.3 preceding, the rates and charges will be developed on an individual case basis.

USOC

SYC++

## ACCESS SERVICE

12. Specialized Service or Arrangements12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this tariff.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

12.2 Rates and Charges

Rates and charges and additional regulations if applicable, for specialized service or arrangements provided on an individual case basis are filed following:

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services

In this section normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.) for the application of rates based on working hours. A Miscellaneous Service Order Charge applies to any service, or combination of services ordered simultaneously, from this section of the Tariff for which a service order is not already pending (with the exception of Presubscription (13.5.2), International Blocking (13.5.6) and 900 Blocking (13.5.7) which do not have the charge applied). The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

The charge always applies to the following services since a pending service order would not exist: Overtime Repair (13.2.2), Standby Repair (13.2.3), Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing (13.2.4), Other Labor (13.2.5) and Maintenance of Service (13.3.1). The Miscellaneous Service Order Charge will also apply to the following services if they are ordered subsequent to the initial installation of the associated access service, thereby necessitating the issuance of another service order: Restoration Priority (13.5.1) and Controller Arrangement (13.5.3).

The charge does not apply to the following services since there would exist a pending service order: Additional Engineering (13.1), Overtime Installation (13.2.1), Standby Acceptance Testing (13.2.3), Testing and Maintenance with Other Telephone Companies when in conjunction with Acceptance Testing (13.2.4), Additional Cooperative Acceptance Testing (13.3.2(A)(1)) and Additional Automatic Testing (13.3.2(A)(2)). This charge is as follows:

	<u>USOC</u>	<u>Charge</u>	
- Miscellaneous Service Order Charge, per occurrence	MOC	\$27.09	(I)

13.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.4 and 7.1.6 preceding.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.1 Additional Engineering (Cont'd)

- (C) A customer requests a Design Change, additional engineering time is incurred by the Telephone Company for the engineering review as set forth in 5.2.2(C). The charge for additional engineering will apply whether or not the customer authorizes the Telephone Company to proceed with the design change.
- (D) When the Telephone Company determines additional engineering is required as set forth in 5.1.2(C) preceding.

The Telephone Company will notify the customer that additional engineering charges, as set forth in 13.4.1 following, will apply before any additional engineering is undertaken.

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following.

13.2.1 Overtime Installation

Overtime Installation is that Telephone Company installation effort outside of normally scheduled working hours.

13.2.2 Overtime Repair

Overtime Repair is that Telephone Company maintenance effort performed outside of normally scheduled working hours.

13.2.3 Stand by

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer to verify repair on a given service.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.2 Additional Labor (Cont'd)13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies, is that which is in addition to normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

The Telephone Company will notify the customer that additional labor charges, as set forth in 13.4.2 following, will apply before any additional labor is undertaken.

13.3 Miscellaneous Services13.3.1 Maintenance of Service

- (A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service Charge for the period of time from when Telephone Company personnel are dispatched to the customer designated premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.
- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer designated premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.



## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Maintenance of Service (Cont'd)

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

(C) Rates for Maintenance of Service can be found in 13.4.2 following.

13.3.2 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 13.4.2 following. Other testing services, as described in 6.1.5 and 7.1.7 preceding are provided by the Telephone Company in association with Access Services and are furnished at no additional charge.

Testing services are normally provided by Telephone company personnel at Telephone Company locations. However, provisions are made in 13.3.2(A)(3) and 13.3.2(B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer's premises.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following:

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, i.e., Acceptance Tests, (b) tests which are performed after acceptance of such access services by a customer which are without charge i.e., routine testing and (c) additional tests which are performed during or after acceptance of such access services by a customer for which additional charges apply, i.e., Additional Cooperative Acceptance Tests and in-service tests.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.2 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)

Routine tests are those tests performed by the Telephone Company on a regular basis, as set forth in 6.1.5 preceding which are required to maintain Switched Access Service. Additional in-service tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a manual basis, (Telephone Company technician(s) involved at Telephone Company offices(s) and Telephone Company or customer technician(s) involved at the customer designated premises).

Testing services are ordered to the Dial Tone Office for FGA, to the access tandem or end office for FGB (wherever the FGB service is ordered) and to the end office for FGC and FGD. Testing Services for Directory Assistance Service not routed through an access tandem is ordered to a Directory Assistance Location for each NPA.

The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support routine testing as set forth in 6.1.5(B) preceding of AAT as set forth in 13.3.2(A)(2) following.

The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing of Switched Access Service involves the Telephone Company provision of a technician at its premises, with suitable test equipment to perform the required tests.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.2 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(1) Additional Cooperative Acceptance Testing (Cont'd)

Additional Cooperative Acceptance Testing may, for example, consist of the following tests:

- . Impulse Noise
- . Phase Jitter
- . Signal to C-Notched Noise Ratio
- . Intermodulation (Nonlinear) Distortion
- . Frequency Shift (Offset)
- . Envelope Delay Distortion
- . Dial Pulse Percent Break

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (FGB, FGC and FGD), is a service where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. The customer may order, at additional charges, gain-slope and C-notched noise testing and may order the routine tests (1004 Hz loss, C-Message Noise and Balance) on an as needed or more than routine schedule.

The Additional Tests as set forth following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule.

Transmission	Additional Tests - To		Rate Per Test	
	<u>First Point of Switching</u>	<u>USOC</u>	<u>Path</u>	
—	Gain-Slope Tests	UBGx+	\$2.90	(I)
	C-Notched Noise Tests	UBGx+	\$2.90	
	1004 Hz Loss*	UBGx+	\$2.90	
	C-Messages Noise*	UBGx+	\$2.90	
	Balance (return loss)*	UBGx+	\$2.90	(I)

\*1004 Hz Loss, C-Message Noise and Balance are non-chargeable routine tests, however they may be required on an as needed or more than routine schedule basis, in which case the charges herein apply.

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.2 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(2) Additional Automatic Testing (Cont'd)

The Telephone Company will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(3) Additional Manual Testing

Additional Manual Testing (AMT) of Switched Access Services (FGA, FGB, FGC and FGD and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and the Telephone Company or customer provides a technician at the customer designated premises, with suitable test equipment to perform the required tests, will normally consist of gain-slope and C-notched noise testing. However, the Telephone Company will conduct any additional tests which the IC may request.

The Telephone Company will provide an AMT report listing the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on a per occurrence basis.

The Additional Tests, Gain-Slope, C-Notched Noise and any other agreed to tests, may be ordered by the customer at additional charges, 60 days prior to the start of the testing schedule as mutually agreed to by the customer and the Telephone Company.

The charges for these Additional Tests can be found in 13.4.2 following.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.2 Testing Services (Cont'd)(B) Special Access Service

The Telephone Company will provide assistance in performing specific tests requested by the customer.

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(1) Additional Cooperative Acceptance Testing

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, for example, consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

(2) Additional Manual Testing

The Telephone Company will provide a technician at its premises, and the Telephone Company or customer will provide a technician at the customer's designated premises with suitable test equipment to perform the requested tests.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.3 Provision of Access Service Billing Information

- (A) The customer will have the option to receive its cyclic access bill in one of the four formats shown below. Data format conforms to the Bellcore Billing Output Specification (BOS) standards as defined by the Technical Review Group (TRG).
- (1) Magnetic Tape Cartridge - bill data tape format
  - (2) Magnetic Tape Reel - bill data tape format
  - (3) Microfiche - printed bill format
  - (4) Paper - printed bill format
- (B) At the option of the customer and for an additional charge, additional copies of the customer's cyclic bill may be provided.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.4 Rates and Charges

The rates following are per each half hour or fraction thereof.

13.4.1 Charges for Additional Engineering

<u>Addition Engineering Periods</u>		<u>USOC</u>	<u>Rate</u>	
(A)	Basic Time, normally scheduled working hours, per engineer.	AEH	\$20.75	(I)
(B)	Overtime, outside of normally scheduled working hours, per engineer.	AEH	\$31.13	(I)

13.4.2 Charges for Additional Labor and Miscellaneous Services

		<u>USOC</u>	<u>I&amp;R</u> <u>Rate</u>	<u>USOC</u>	<u>COE</u> <u>Rate</u>
<u>Time Periods</u>					
Basic Time, normally scheduled working hours, per technician.					
\$13.85	(I)	ALT	\$13.90	ALP	
\$13.85	(I)	ALK	\$13.90	ALM	
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician.					
\$20.78*	(I)	ALH	\$20.85*	ALJ	
\$20.78*	(I)	ALT	\$20.85*	ALP	
\$20.78*	(I)	ALK	\$20.85*	ALM	
Premium Time, outside of scheduled work day, per technician.					
\$27.70*	(I)	ALH	\$27.80*	ALJ	
\$27.70*	(I)	ALT	\$27.80*	ALP	
\$27.70*	(I)	ALK	\$27.80*	ALM	

\* A call-out of a Telephone Company employee at a time not coinciding with the employee's scheduled work period is subject to a minimum charge of four hours.

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.4 Rates and Charges (Cont'd)13.4.2 Charges for Additional Labor and Miscellaneous Services (Cont'd)

The rates following are per each half hour or fraction thereof.

		<u>Cable Tech.</u>		<u>Cable Attndt.</u>	
		<u>USOC</u>	<u>Rate</u>	<u>USOC</u>	<u>Rate</u>
<u>Time Periods</u>					
Basic Time, normally scheduled working hours, per technician.					
\$17.34	(I)	ALS	\$21.60	ALG	
\$17.34	(I)		ALC \$21.60	ALQ	
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician.					
		ALR	\$32.40*	ALD	\$26.01* (I)
		ALS	\$32.40*	ALG	\$26.01* (I)
\$26.01*	(I)		ALC \$32.40*	ALQ	
Premium Time, outside of scheduled work day, per technician.					
		ALR	\$43.20*	ALD	\$34.68* (I)
\$34.68*	(I)	ALS	\$43.20*	ALG	
\$34.68*	(I)		ALC \$43.20*	ALQ	

\* A call-out of a Telephone Company employee at a time not coinciding with the employee's scheduled work period is subject to a minimum charge of four hours.

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services

13.5.1 Reserved for future use.

(T)

13.5.2 Presubscription

(A) Presubscription is the process by which end user customers may select and designate to the Telephone Company an IC to access, without an access code, for interLATA, and intraLATA calls. This IC is referred to as the end user's predesignated IC. An end user customer may select an IC for interLATA service and an IC for intraLATA service

(N)

(N)

The terms, conditions, rates and charges for interLATA presubscription are found in Aliant State Access Tariff, Section 13.

(N)

The terms and conditions for interLATA presubscription are following.

(N)

(B) End users existing prior to July 1989 were required to make a free initial PIC selection in accordance with the detailed provisions of the Federal Communication Commission's Memorandum Opinion and Order, CC Docket No. 83-1145, Phase I, adopted May 31, 1985, and released June 12, 1985. The Allocation Plan is outlined in Appendix B of this Order and is available for inspection in the Public Reference Room of the Tariff Division at the Federal Communications Commission's Washington D.C. location or may be obtained from the Commission's commercial contractor.

(T)

(T)

After the end user's initial selection of a predesignated IC or the designation that they do not want to presubscribe to any IC, a nonrecurring charge, as set forth in (H) following applies.

(M)

(M)

(D)

(D)

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.2 Presubscription (Cont'd)

- (C) New end users who are served by end offices equipped with Feature Group D will be asked to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. They may select one of the following options. There will be no charge for this initial selection. (M)
- designate a primary IC for all of its lines, (M)
  - designate a different IC for each of its lines, (N)
  - designate that they do not want to prescribe to any IC. (N)
- Only one IC may be selected for each individual line, or lines terminating in the same hunt group. If an end user designates that they do not want to presubscribe to any IC, the end user will be required to dial an access code (101XXXX) for all interstate calls. This line condition, designated EA,NOP, is considered a PIC and the Telephone Company will assess the PICC directly to the end user, as set forth in 3.8.6 preceding. After the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in (H) following, applies. (M)
- (D) An IC may submit a request to remove their PIC from an end user's line when the IC's service to that end user is terminated for non-payment or other IC tariff violation. When an end user's line is changed to EA,C/D at the request of an IC, a Presubscription change charge as specified in (H) following does not apply. (N)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.2 Presubscription (Cont'd)

(D) Cont'd

(N)

If an IC chooses to terminate service of an end user for nonpayment or other tariff violation and wishes to avoid liability for the PICC charge, the IC must comply with the Federal Communications Commission requirement to notify its end user of the termination and explain to its end user the need to select a new Primary Interexchange Carrier. In addition, the IC must inform the end user that the Telephone Company will assess the PICC directly to the end user until a new Primary Interexchange Carrier is selected. The IC must also provide notice to the Telephone Company, as set forth in 3.8.6 preceding, that it has discontinued service to that end user.

Upon receipt of notification, the Telephone Company will verify that the end user line is currently presubscribed to the IC. If the end user line is currently presubscribed to the IC, the Telephone Company will change the end user line PIC designation to EA,C/D.

The Telephone Company is not liable for any dispute of the change in PIC selection to EA,C/D resulting from an IC's notification to the Telephone Company. The IC shall furnish the Telephone Company with a copy of its end user notification upon request in order to resolve any end user PIC disputes.

(N)

(D)

(D)

(E) In the event that two or more ICs have provided to the Telephone Company notifications with the same authorization date(s), and one IC notification has already been processed by the Telephone Company, those IC notifications not yet processed would be returned to the ICs.

(T)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.2 Presubscription (Cont'd)

(D)

(D)

(F) If an IC elects to discontinue its Feature Group D Service offering, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are cancelling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The cancelling IC will then be billed by the Telephone Company the appropriate charge for each end user.

(T)

(D)

(D)

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.2 Presubscription (Cont'd)

- (G) If an IC elects to change or discontinue use of a Carrier Identification Code (CIC) for any reasons other than those set forth in (F) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The Telephone Company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge, as set forth in (H) following, for each end user line or trunk that is changed. (T)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.2 Presubscription (Cont'd)

(H) The nonrecurring charge for presubscription is as follows:

(T)

<u>Presubscription</u>	<u>Nonrecurring Charge</u>
- Per Telephone Exchange Service line or trunk	\$4.53

Note: This charge is generally billed to the end user who is the subscriber to the Telephone Exchange Service except as set forth in (F) through (G) preceding and as set forth following. In those instances where the IC both requests the presubscription change, and requests the associated charge be billed to it, the Telephone Company will bill the IC. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. If an end user is incorrectly assigned an IC carrier as a result of an error on the IC's part, and the IC is unable to substantiate the assignment with a letter of agency signed by the billed party, the Telephone Company will apply this charge in addition to the nonrecurring unauthorized PIC change charge, as set forth in 13.5.9(B) following, to the IC responsible for the misassignment of the end user. The end user's IC choice will then be processed by the Telephone Company.

(T)

13.5.3 Miscellaneous Equipment(A) Controller Arrangements

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company Central Office to provide access to the Controller Arrangement. This dial-up data station consists of a 212A DATAPHONE data set and an appropriate Telephone Company provided channel.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.3 Miscellaneous Equipment (Cont'd)(A) Controller Arrangements (Cont'd)

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

	<u>USOC</u>	<u>Monthly Rate</u>	
- per arrangement	XTDDU	\$ 94.65	(I)

13.5.4 Charges for Miscellaneous Service

Additional copies of the customer's cyclic bill.

	<u>Monthly Rate</u>	
(A) Magnetic Tape Cartridge - per cartridge	\$30.45	
(B) Magnetic Tape Reel - per reel	49.93	
(C) Microfiche - per page	0.58	
(D) Paper - per 1,000 printed lines	0.71	(I)

(TR36)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.5 Telecommunications Service Priority (TSP) System(A) Description of the Service

The TSP system is a service that provides for the priority provisioning and/or restoration of National Security Emergency Preparedness (NSEP) Telecommunications services. The TSP system applies only to NSEP services, includes all Access Services and provides the Telephone Company with a guide to the sequence in which services are to be provisioned and/or restored.

All facilities that can be identified by a unique circuit identifier, can be provisioned for TSP service by the Telephone Company.

The minimum period for restoration priority service is one month.

The rates and charges associated with a customer subscribing to TSP service are as specified in Section 13.5.5(G)(1).

(B) Obtaining TSP Service

The Executive Office of the President is empowered with the authority to receive, evaluate and process requests for NSEP TSP services. The executive Office of the President, through the TSP Program office as its administrative branch, makes the priority level assignments and issues the TSP authorization code reflecting the priority assignment associated with a request. The customer initiates the request for TSP service from the TSP Program office through an agency of the federal government. The customer provides the TSP authorization code, in addition to all the other details necessary to complete the order (ASR), and submits to the Telephone Company for appropriate action.



## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.5 Telecommunications Service Priority (TSP) System (Cont'd)(B) Obtaining TSP Service (Cont'd)

The TSP authorization code, assigned on a per service basis, consists of a 12-character field, a nine-character control ID followed by a dash and a two-character field specifying the priority level assignment. Its structure is as follows:

TSPxxxxxn-yy

The "x"s contain a sequence number unique to each TSP authorization code and the "n" is a one character alpha numeric check digit. The first "y" is the provisioning priority level assignment. The second "y" is the restoration priority level assignment.

(C) Provisioning Priority

If the customer requires service within a shorter time interval than the Telephone Company can provide, and the requested service qualifies for NSEP, the customer may elect to invoke NSEP treatment and obtain the appropriate provisioning priority assignment from the TSP Program office. Acceptable assignment code values are: E, 1, 2, 3, 4, 5 or 0.

The assignment of the value "E" implies the service has the most critical provisioning requirements and the Telephone Company will treat accordingly. The Telephone Company will take immediate action to provide the requested service at the earliest possible date. Rates and charges associated with "E" provisioning are as specified in Section 13.2.

The assignment values of 1, 2, 3, 4 and 5 are treated as essential service priorities and the Company will adjust its available resources to meet the customer's requested due date. Rates and charges associated with invoking this priority treatment are specified in Section 13.2. The value "0" implies no provisioning priority.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.5 Telecommunications Service Priority (TSP) System (Cont'd)(D) Restoration Priority

By obtaining a TSP authorization code for restoration priority, the service is classified as being among the nation's most important NSEP telecommunication services. The Company will restore these services before service without restoration priority assignments in the order of priority assignments. Acceptable values are 1, 2, 3, 4, 5 or 0 with the value "1" being the highest priority.

When the Company recognizes a TSP as being out of service, unusable or upon receipt of a trouble report, available resources will be dispatched to restore the service as quickly as practicable. A priority value of 1, 2 or 3 requires dispatch outside normal business hours if necessary to restore the service. A priority value of 4 or 5 only requires dispatch outside of normal business hours if the next business day is more than 24 hours away. If the value "0" has been assigned, then no restoration priority is applicable to this service.

(E) General Customer Obligations

- (1) In all instances, the customer is responsible for obtaining the appropriate TSP authorization code and providing that code to the Telephone Company. The code may be submitted verbally and the Telephone Company will accept such verbal notification, however, the customer must submit written confirmation to the Telephone Company within two working days. If written confirmation is not received within two working days, all applicable rates and charges become immediately due and payable and the requested TSP priority is revoked.
- (2) The customer for TSP service must be the same customer for the Access Service with which it is associated.
- (3) All points of a multipoint service configuration must have the same restoration priority assignment and must satisfy the requirements of that assignment.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.5 Telecommunications Service Priority (TSP) System (Cont'd)(E) General Customer Obligations (Cont'd)

- (4) In obtaining TSP service, the customer consents to the release of certain information by the Telephone Company to the TSP Program Office in order to maintain and administer the TSP System. Such information includes: the customer's name, telephone number and mailing address, the TSP authorization code and the circuit or service ID number associated with the TSP service.
- (5) When NSEP treatment is invoked, the Telephone Company will first attempt to notify the customer. If the Telephone Company is not able to notify the customer, then the customer recognizes that quoting charges and obtaining permission beforehand will cause unnecessary delays and, as a result, grants the Telephone Company the right to quote charges after provisioning of the service.
- (6) The customer must request and justify revalidation of all priority level assignments at least every three years.

(F) General Company Obligations

- (1) The Telephone Company will provision and/or restore service having TSP authorization codes before other services, with the exception of official Company services necessary for provisioning and/or restoring the services of the carrier.
- (2) The Telephone Company will work TSP services in the order of their priority level assignments. The priority sequence is as follows:
  - Restore TSP services assigned restoration priority 1
  - Provision Emergency (E) TSP services
  - Restore TSP services assigned restoration priority 2, 3, 4 or 5.
  - Provision TSP services assigned provisioning priority 1, 2, 3, 4 or 5.

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.5 Telecommunications Service Priority (TSP) System (Cont'd)(F) General Company Obligations (Cont'd)

- (3) Work cooperatively with other providers of NSEP service when only a portion is provided by the Telephone Company to ensure "end-to-end" service.

(G) Rates and Charges

The following rates and charges are in addition to all other rates and charges that may apply for other services offered under this tariff which operate in conjunction with the TSP System.

(1) Establishment of TSP Service

The nonrecurring charge (NRC) specified below applies when Access Service is ordered with provisioning and/or restoration priority. If both are ordered at the same time, only one NRC is applicable. The specified NRC is also applicable for orders specifying priority changes. The monthly rate is associated with only the administration and maintenance of the TSP System for restoration priority service.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
TSP Services, Per Circuit	0.00	\$80.63	(I)

(2) Priority Provisioning

There are two basic levels of priority provisioning, Emergency (provisioning priority "E") and Essential (provisioning priority 1, 2, 3, 4 or 5).

- (a) Emergency provisioning. The Telephone Company will take immediate action to provide the requested service at the earliest possible date. The rates and charges will apply as set forth in Section 13.2.

(TR36)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.5 Telecommunications Service Priority (TSP) System (Cont'd)

(G) Rates and Charges (Cont'd)

(2) Priority Provisioning (Cont'd)

- (b) Essential provisioning. The Telephone Company will adjust its available resources to meet the customers requested due date. The rates and charges will apply as set forth in Section 13.2, Additional Labor. To calculate the Additional Labor charges, the Telephone Company will keep track of the additional labor hours used to meet the request of the customer and bill the customer at the applicable Additional Labor charges.

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.6 International Blocking Service

International Blocking Service is offered by the Telephone Company to subscribers of Telephone Exchange Service. International Blocking Service provides end office blocking of international direct-dialed sequences (011+ and 101XXXX-011+), by routing such calls to a recorded announcement.

(C)

The offering of International Blocking Service under this section of the tariff is subject to the capability of the end office switching equipment.

International Blocking Service offered under this section of the tariff is optional and subject to the charges as set forth in (A) following.

- (A) The nonrecurring charge for International Blocking Service is as follows:

<u>International Blocking Service</u>	<u>Nonrecurring Charge</u>
- Per Telephone Exchange Service line or trunk	\$30.27

Note: This charge is billed to the end user who is the subscriber to the Telephone Exchange Service.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5.7 900 Blocking Service

The Telephone Company will provide 900 Blocking Service to customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs and to customers who obtain Feature Group A Switched Access service under this tariff. This service is only provided at appropriately equipped end offices. Those offices providing 900 Blocking Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

On each line or trunk for which 900 Blocking Service is ordered, the Telephone Company will block all direct dialed calls placed to a 900 number. When capable, the Telephone Company will route the blocked calls to a recorded message.

A 900 Blocking Service charge as set forth in (A) following is applicable when ordered by the end user customer with the following exceptions:

- 900 Blocking Service will be provided at no charge on a one-time basis to all customers of both existing and new local exchange service and FGA Switched Access service.
- Customers with 900 Blocking Service who move to a new location will receive 900 Blocking Service at their new location at no charge.

The Blocking Service charge is applied for each line, trunk or Feature Group A Switched Access service to which 900 Blocking Service is removed or subsequently added. Requests by subscribers to remove 900 Blocking Service must be in writing. This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

(A) 900 Blocking Service                      Nonrecurring Charge

- Per change in Blocking                      \$13.06

(I)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.8 Verification of Orders for Telecommunications Service

(C)

No telecommunications carrier shall submit a preferred carrier change order unless and until the order has first been confirmed in accordance with one of the following procedures:

(A) The telecommunications carrier has obtained the subscriber's written authorization in a form that meets the requirements of the Letter of Agency; or

(B) The telecommunications carrier has obtained the subscriber's electronic authorization to submit the preferred carrier change order. Such authorization must be placed from the telephone number(s) on which the preferred carrier is to be changed and must confirm the information required in paragraph (A) of this section. Telecommunications carriers electing to confirm sales electronically shall establish one or more toll-free telephone numbers exclusively for that purpose. Calls to the number(s) will connect a subscriber to a voice response unit, or similar mechanism that records the required information regarding the preferred carrier change, including automatically recording the originating automatic numbering identification; or

(C) An appropriately qualified independent third party has obtained the subscriber's oral authorization to submit the preferred carrier change order that confirms and includes appropriate verification data (e.g., the subscriber's date of birth or social security number). The independent third party must (1) not be owned, managed, controlled, or directed by the carrier or the carrier's marketing agent; (2) must not have any financial incentive to confirm preferred carrier change orders for the carrier or the carrier's marketing agent; and (3) must operate in a location physically separate from the carrier or the carrier's marketing agent. The content of the verification must include clear and conspicuous confirmation that the subscriber has authorized a preferred carrier change; or

(D) Any State-enacted verification procedures applicable to intrastate preferred carrier change orders only.

(C)

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.9 Letter of Agency Form and Content

(C)

- (A) A telecommunications carrier may use a Letter of Agency to obtain written authorization and/or verification of a subscriber's request to change his or her preferred carrier selection. A letter of agency that does not conform with this section is invalid.
- (B) The letter of agency shall be a separate document (or an easily separable document) containing only the authorizing language described in paragraph (E) of this section having the sole purpose of authorizing a telecommunications carrier to initiate a preferred carrier change. The letter of agency must be signed and dated by the subscriber to the telephone line(s) requesting the preferred carrier change.
- (C) The Letter of Agency shall not be combined on the same document with inducements of any kind.
- (D) Notwithstanding paragraphs (B) and (C) of this section, the Letter of Agency may be combined with checks that contain only the required Letter of Agency language as prescribed in paragraph (E) of this section and the necessary information to make the check a negotiable instrument. The Letter of Agency check shall not contain any promotional language or material. The Letter of Agency check shall contain in easily readable, bold-face type on the front of the check, a notice that the subscriber is authorizing a preferred carrier change by signing the check. The Letter of Agency language shall be placed near the signature line on the back of the check.
- (E) At a minimum, the Letter of Agency must be printed with a type of sufficient size and readable type to be clearly legible and must contain clear and unambiguous language that confirms:
  - (1) The subscriber's billing name and address and each telephone number to be covered by the preferred carrier change order;

(C)

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.9 Letter of Agency Form and Content (Cont'd)

(C)

- (2) The decision to change the preferred carrier from the current telecommunications carrier to the soliciting telecommunications carrier;
- (3) That the subscriber designates [name of submitting carrier] to act as the subscriber's agent for the preferred carrier change;
- (4) That the subscriber understands that only one telecommunications carrier may be designated as the subscriber's interstate or interLATA preferred interexchange carrier for any one telephone number. To the extent that a jurisdiction allows the selection of additional preferred carriers (e.g., local exchange, intraLATA/intrastate toll, interLATA/interstate toll, or international interexchange) the Letter of Agency must contain separate statements regarding those choices, although a separate Letter of Agency for each choice is not necessary; and
- (5) That the subscriber understands that any preferred carrier selection the subscriber chooses may involve a charge to the subscriber for changing the subscriber's preferred carrier.
- (F) Any carrier designated in a letter of agency as a preferred carrier must be the carrier directly setting the rates for the subscriber.
- (G) Letters of Agency shall not suggest or require that a subscriber take some action in order to retain the subscriber's current telecommunications carrier.
- (H) If any portion of a Letter of Agency is translated into another language then all portions of the Letter of Agency must be translated into that language. Every Letter of Agency must be translated into the same language as any promotional materials, oral descriptions or instructions provided with the letter of agency.

(C)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.10 Changes in Subscriber Carrier Selections

(C)

(A) No telecommunications carrier shall submit or execute a change on the behalf of a subscriber in the subscriber's selection of a provider of telecommunications service except in accordance with the procedures described below. Nothing in this section shall preclude any State commission from enforcing these procedures with respect to intrastate services.

(1) No submitting carrier shall submit a change on the behalf of a subscriber in the subscriber's selection of a provider of telecommunications service prior to obtaining: (A) authorization from the subscriber, and (B) verification of that authorization in accordance with the procedures prescribed in Section 13.5.8. For a submitting carrier, compliance with the verification procedures prescribed in this Section shall be defined as compliance with paragraphs (A) and (B) of this section, as well with Section 13.5.8. The submitting carrier shall maintain and preserve records of verification of subscriber authorization for a minimum period of two years after obtaining such verification.

(2) An executing carrier shall not verify the submission of a change in a subscriber's selection of a provider of telecommunications service received from a submitting carrier. For an executing carrier, compliance with the procedures prescribed in this Section shall be defined as prompt execution, without any unreasonable delay, of changes that have been verified by a submitting carrier.

(3) Commercial mobile radio services (CMRS) providers shall be excluded from the verification requirements as long as they are not required to provide equal access to common carriers for the provision of telephone toll services.

(C)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.10 Changes in Subscriber Carrier Selections (Cont'd)

- (B) Where a telecommunications carrier is selling more than one type of telecommunications service (e.g., local exchange, intraLATA/intrastate toll, interLATA/interstate toll, and international toll) that carrier must obtain separate authorization from the subscriber for each service sold, although the authorizations may be made within the same solicitation. Each authorization must be verified separately from any other authorizations obtained in the same solicitation. Each authorization must be verified in accordance with the verification procedures prescribed in this Section.
- (C) Carrier Liability for Charges. Any submitting telecommunications carrier that fails to comply with the procedures prescribed in this Section shall be liable to the subscriber's properly authorized carrier in an amount equal to all charges paid to the submitting telecommunications carrier by such subscriber after such violation, as well as for additional amounts as prescribed in Section 13.5.11. These remedies are in addition to any other remedies available by law.
- (D) Subscriber Liability for Charges. Any subscriber whose selection of telecommunications service provider is changed without authorization verified in accordance with the procedures set forth in this Section is absolved of liability for charges imposed by the unauthorized carrier for service provided during the first 30 days after the unauthorized change. Upon being informed by a subscriber that an unauthorized change has occurred, the authorized carrier, the unauthorized carrier, or the executing carrier shall inform the subscriber of this 30-day absolution period. The subscriber shall be absolved of liability for this 30-day period only if the subscriber has not already paid charges to the unauthorized carrier.

(N)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.10 Changes in Subscriber Carrier Selections (Cont'd)

- (1) Any charges imposed by the unauthorized carrier on the subscriber after this 30-day period shall be paid by the subscriber to the authorized carrier at the rates the subscriber was paying to the authorized carrier at the time of the unauthorized change. Upon the subscriber's return to the authorized carrier, the subscriber shall forward to the authorized carrier a copy of any bill that contains charges imposed by the unauthorized carrier after the 30-day period of absolution. After the authorized carrier has re-rated the charges to reflect its own rates, the subscriber shall be liable for paying such re-rated charges to the authorized carrier.
  - (2) If the subscriber has already paid charges to the unauthorized carrier, and the authorized carrier recovers such charges as provided in paragraph (C), the authorized carrier shall refund or credit to the subscriber any charges recovered from the unauthorized carrier in excess of what the subscriber would have paid for the same service had the unauthorized change not occurred, in accordance with the procedures set forth in Section 13.5.11.
  - (3) If the subscriber has been absolved of liability as prescribed by this Section, the unauthorized carrier shall also be liable to the subscriber for any charge required to return the subscriber to his or her properly authorized carrier, if applicable.
- (E) Definitions. For the purposes of this Section, the following definitions are applicable:
- (1) Submitting carrier: a submitting carrier is generally any telecommunications carrier that: (A) requests on the behalf of a subscriber that the subscriber's telecommunications carrier be changed, and (B) seeks to provide retail services to the end user subscriber. A carrier may be treated as a submitting carrier, however, if it is responsible for any unreasonable delays in the submission of carrier change requests or for the submission of unauthorized carrier change requests, including fraudulent authorizations.

(N)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.10 Changes in Subscriber Carrier Selections (Cont'd)

- (2) Executing carrier: an executing carrier is generally any telecommunications carrier that effects a request that a subscriber's telecommunications carrier be changed. A carrier may be treated as an executing carrier, however, if it is responsible for any unreasonable delays in the execution of carrier changes or for the execution of unauthorized carrier changes, including fraudulent authorizations.
- (3) Authorized carrier: an authorized carrier is generally any telecommunications carrier that submits a change, on behalf of a subscriber, in the subscriber's selection of a provider of telecommunications service with the subscriber's authorization verified in accordance with the procedures specified in this Section.
- (4) Unauthorized carrier: an unauthorized carrier is generally any telecommunications carrier that submits a change, on behalf of a subscriber, in the subscriber's selection of a provider of telecommunications service but fails to obtain the subscriber's authorization verified in accordance with the procedures specified in this Section.
- (5) Unauthorized change: an unauthorized change is a change in a subscriber's selection of a provider of telecommunications service that was made without authorization verified in accordance with the verification procedures specified in this Section.

(N)

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.11 Reimbursement Procedures

(A) The procedures in this section shall apply only after a subscriber has determined that an unauthorized change has occurred, as defined by Section 13.5.10(E)(5), and the subscriber has paid charges to an allegedly unauthorized carrier. Upon receiving notification from the subscriber or a carrier that a subscriber has been subjected to an unauthorized change and that the subscriber has paid charges to an allegedly unauthorized carrier, the properly authorized carrier must, within 30 days, request from the allegedly unauthorized carrier proof of verification of the subscriber's authorization to change carriers. Within ten days of receiving such request, the allegedly unauthorized carrier shall forward to the authorized carrier either:

(1) Proof of verification of the subscriber's authorization to change carriers; or

(2) The following:

(a) An amount equal to all charges paid by the subscriber to the unauthorized carrier; and

(b) An amount equal to any charge required to return the subscriber to his or her properly authorized carrier, if applicable;

(c) Copies of any telephone bill(s) issued from the unauthorized carrier to the subscriber.

(B) If an authorized carrier incurs any billing and collection expenses in collecting charges from the unauthorized carrier, the unauthorized carrier shall reimburse the authorized carrier for reasonable expenses.

(N)

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.11 Reimbursement Procedures (Cont'd)

- (C) Where a subscriber notifies the unauthorized carrier, rather than the authorized carrier, of an unauthorized subscriber carrier selection change, the unauthorized carrier must immediately notify the authorized carrier.
- (D) Subscriber Refunds or Credits. Upon receipt from the unauthorized carrier of the amount described in Section 13.5.11(A)(2)(a), the authorized carrier shall provide a refund or credit to the subscriber of all charges paid in excess of what the authorized carrier would have charged the subscriber absent the unauthorized change. If the authorized carrier has not received from the unauthorized carrier an amount equal to charges paid by the subscriber to the unauthorized carrier, the authorized carrier is not required to provide any refund or credit. The authorized carrier must, within 60 days after it receives notification of the unauthorized change, inform the subscriber if it has failed to collect any charges from the unauthorized carrier and inform the subscriber of his or her right to pursue a claim against the unauthorized carrier for a refund of all charges paid to the unauthorized carrier.
- (E) Restoration of Premium Programs. Where possible, the properly authorized carrier must reinstate the subscriber in any premium program in which that subscriber was enrolled prior to the unauthorized change, if that subscriber's participation in the premium program was terminated because of the unauthorized change. If the subscriber has paid charges to the unauthorized carrier, the properly authorized carrier shall also provide or restore to the subscriber any premiums to which the subscriber would have been entitled had the unauthorized change not occurred. The authorized carrier must comply with the requirements of this subsection regardless of whether it is able to recover from the unauthorized carrier any charges that were paid by the subscriber.

(N)



## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.12 Investigation Procedures

- (A) The procedures in this section shall apply only after a subscriber has determined that an unauthorized change has occurred and such subscriber has not paid for charges imposed by the unauthorized carrier for the first 30 days after the unauthorized change.
- (B) The unauthorized carrier shall remove from the subscriber's bill all charges that were incurred for service provided during the first 30 days after the unauthorized change occurred.
- (C) The unauthorized carrier may, within 30 days of the subscriber's return to the authorized carrier, submit to the authorized carrier a claim that the subscriber was not subjected to an unauthorized change, along with a request for the amount of charges for which the consumer was credited pursuant to paragraph (B) and proof that the change to the subscriber's selection of telecommunications carrier was made with authorization verified in accordance with the verification procedures specified in this Section.
- (D) The authorized carrier shall conduct a reasonable and neutral investigation of the claim, including, where appropriate, contacting the subscriber and the carrier making the claim.
- (E) Within 60 days after receipt of the claim and the proof of verification, the authorized carrier shall issue a decision on the claim to the subscriber and the carrier making the claim.
  - (1) If the authorized carrier decides that the subscriber was not subjected to an unauthorized change, the authorized carrier shall place on the subscriber's bill a charge equal to the amount of charges for which the subscriber was previously credited pursuant to paragraph (B). Upon receiving this amount, the authorized carrier shall forward this amount to the carrier making the claim.
  - (2) If the authorized carrier decides that the subscriber was subjected to an unauthorized change, the subscriber shall not be required to pay the charges for which he or she was previously absolved.

(N)

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## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(N)

13.5 Other Miscellaneous Services (Cont'd)13.5.13 Preferred Carrier Freezes

- (A) A preferred carrier freeze (or freeze) prevents a change in a subscriber's preferred carrier selection unless the subscriber gives the carrier from whom the freeze was requested his or her express consent. All local exchange carriers who offer preferred carrier freezes must comply with the provisions of this section.
- (B) All local exchange carriers who offer preferred carrier freezes shall offer freezes on a nondiscriminatory basis to all subscribers, regardless of the subscriber's carrier selections.
- (C) Preferred carrier freeze procedures, including any solicitation, must clearly distinguish among telecommunications services (e.g., local exchange, intraLATA/intrastate toll, interLATA/interstate toll, and international toll) subject to a preferred carrier freeze. The carrier offering the freeze must obtain separate authorization for each service for which a preferred carrier freeze is requested.
- (D) Solicitation and imposition of preferred carrier freezes.
  - (1) All carrier-provided solicitation and other materials regarding preferred carrier freezes must include:
    - (a) An explanation, in clear and neutral language, of what a preferred carrier freeze is and what services may be subject to a freeze;
    - (b) A description of the specific procedures necessary to lift a preferred carrier freeze; an explanation that these steps are in addition to the Commission's verification rules in sections 13.5.8 and 13.5.9 for changing a subscriber's preferred carrier selections; and an explanation that the subscriber will be unable to make a change in carrier selection unless he or she lifts the freeze; and

(N)

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd) (N)

13.5 Other Miscellaneous Services (Cont'd)

13.5.13 Preferred Carrier Freezes (Cont'd)

- (c) An explanation of any charges associated with the preferred carrier freeze.
- (2) No local exchange carrier shall implement a preferred carrier freeze unless the subscriber's request to impose a freeze has first been confirmed in accordance with one of the following procedures:
  - (a) The local exchange carrier has obtained the subscriber's written and signed authorization in a form that meets the requirements of Section 13.5.13(D)(3); or
  - (b) The local exchange carrier has obtained the subscriber's electronic authorization, placed from the telephone number(s) on which the preferred carrier freeze is to be imposed, to impose a preferred carrier freeze. The electronic authorization should confirm appropriate verification data (e.g., the subscriber's date of birth or social security number) and the information required in Section 13.5.13(D)(3)(b)(i)-(iv). Telecommunications carriers electing to confirm preferred carrier freeze orders electronically shall establish one or more toll-free telephone numbers exclusively for that purpose. Calls to the number(s) will connect a subscriber to a voice response unit, or similar mechanism that records the required information regarding the preferred carrier freeze request, including automatically recording the originating automatic numbering identification; or

(N)

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd) (N)

13.5 Other Miscellaneous Services (Cont'd)

13.5.13 Preferred Carrier Freezes (Cont'd)

- (c) An appropriately qualified independent third party has obtained the subscriber's oral authorization to submit the preferred carrier freeze and confirmed the appropriate verification data (e.g., the subscriber's date of birth or social security number) and the information required in Section 13.5.13(D)(3)(b)(i)-(iv). The independent third party must (1) not be owned, managed, or directly controlled by the carrier or the carrier's marketing agent; (2) must not have any financial incentive to confirm preferred carrier freeze requests for the carrier or the carrier's marketing agent; and (3) must operate in a location physically separate from the carrier or the carrier's marketing agent. The content of the verification must include clear and conspicuous confirmation that the subscriber has authorized a preferred carrier freeze.
- (3) Written authorization to impose a preferred carrier freeze. A local exchange carrier may accept a subscriber's written and signed authorization to impose a freeze on his or her preferred carrier selection. Written authorization that does not conform with this section is invalid and may not be used to impose a preferred carrier freeze.
  - (a) The written authorization shall comply with Section 13.5.9(B), (C), and (H).
  - (b) At a minimum, the written authorization must be printed with a readable type of sufficient size to be clearly legible and must contain clear and unambiguous language that confirms:
    - (i) The subscriber's billing name and address and the telephone number(s) to be covered by the preferred carrier freeze;

(N)

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd) (N)

13.5 Other Miscellaneous Services (Cont'd)

13.5.13 Preferred Carrier Freezes (Cont'd)

- (ii) The decision to place a preferred carrier freeze on the telephone number(s) and particular service(s). To the extent that a jurisdiction allows the imposition of preferred carrier freezes on additional preferred carrier selections (e.g., for local exchange, intraLATA/intrastate toll, interLATA/interstate toll service, and international toll), the authorization must contain separate statements regarding the particular selections to be frozen;
  - (iii) That the subscriber understands that she or he will be unable to make a change in carrier selection unless she or he lifts the preferred carrier freeze; and
  - (iv) That the subscriber understands that any preferred carrier freeze may involve a charge to the subscriber.
- (E) Procedures for lifting preferred carrier freezes. All local exchange carriers who offer preferred carrier freezes must, at a minimum, offer subscribers the following procedures for lifting a preferred carrier freeze:
- (1) A local exchange carrier administering a preferred carrier freeze must accept a subscriber's written and signed authorization stating her or his intent to lift a preferred carrier freeze; and
  - (2) A local exchange carrier administering a preferred carrier freeze must accept a subscriber's oral authorization stating her or his intent to lift a preferred carrier freeze and must offer a mechanism that allows a submitting carrier to conduct a three-way conference call with the carrier administering the freeze and the subscriber in order to lift a freeze. When engaged in oral authorization to lift a preferred carrier freeze, the carrier administering the freeze shall confirm appropriate verification data (e.g., the subscriber's date of birth or social security number) and the subscriber's intent to lift the particular freeze.

(N)

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.5 Other Miscellaneous Services (Cont'd)

13.5.14 Unauthorized PIC Change

(T)

(A) If an IC requests a Primary Interexchange Carrier (PIC) change on behalf of a billed party (e.g., an end user or the designator of the PIC for a pay telephone), and the billed party subsequently denies requesting the change, and the IC is unable to substantiate the change with a letter of agency signed by the billed party; then:

- The billed party will be reassigned to its previously selected IC. No charge will apply to the billed party for this reassignment.
- The nonrecurring Unauthorized PIC Change Charge, as set forth in (B) following, applies to the IC that requested the unauthorized PIC change. This charge is applied in addition to the nonrecurring Presubscription charge, as set forth in 13.5.2(J) preceding.

(B) The nonrecurring charge for unauthorized PIC change is as follows:

<u>Unauthorized PIC Change</u>	<u>Nonrecurring Charge</u>
- Per Telephone Exchange Service line or trunk	\$ 43.67

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Other Miscellaneous Services (Cont'd)13.5.15 Originating Line Number Screening (OLNS) Service

(T)

OLNS Service provides customers access to the Telephone Company's Line Information Data Base (LIDB) Provider to facilitate the completion of originating calls from working telephone numbers. The Telephone Company's LIDB Provider will provide originating line screening information that will identify allowable originating call processing and originating billing decisions. OLNS query charges will be billed to the customer by the Telephone Company's LIDB Provider.

13.5.16 Nonchargeable Confirmation Services

(T)

(A) Billed Number Screening (BNS)

At the request of the customer, the Telephone Company business office will confirm BNS codes associated with a line to which a call is to be billed.

(B) Originating Line Number Screening (OLNS)

At the request of the customer, the Telephone Company business office will confirm OLNS codes associated with a line from which a call is placed.

13.5.17 Flex ANI Payphone Charge

(T)

Rate  
Per Month

The Flex ANI payphone charge will be billed per month, per payphone access line for a 12 month period beginning January 1, 1999, and ending December 31, 1999. \$1.48

## ACCESS SERVICE

14. Exceptions to Access Service Offerings

The services offered under the provisions of this tariff are subject to availability as set forth in 2.1.4 preceding. In addition, the following exceptions apply:

(Paragraphs 14.1 through 14.5 following are reserved for future listings as a result of a subsequent survey. In the meantime, in planning an end-to-end service, the customer should contact the Telephone Company in each customer premises city to assure itself that all of the service or service components required for a given customer service are currently available.)

- 14.1 The following service(s) is (are) not offered in the operating territory of listed Issuing Carriers.

(Reserve for future use.)

- 14.2 The following offering(s) is (are) limited to existing locations. No inside moves, rearrangements or additions will be permitted.

(Reserve for future use.)

- 14.3 The following offering(s) is (are) limited to existing locations. Inside moves or rearrangements may be undertaken. However, no additions will be permitted.

14.3.1 Nebraska Educational Television

Nebraska Educational Television Commission Video Service from Lincoln to Omaha, Nebraska.

	<u>USOC</u>	<u>RATE</u>	<u>QTY</u>	<u>MONTHLY CHARGE</u>
Order/Control Mead to Omaha	ORDCT	155.00	1	155.00
Order Wire Lincoln to Mead	ORDWI	95.00	1	95.00
Stereo Lincoln to Mead	STR01	46.25	2	92.50
Stereo Mead to Omaha	STR02	52.00	2	104.00
Video Lincoln to Mead	VID01	430.00	3	1,290.00
				<u>1,736.50</u>



ACCESS SERVICE

14. Exceptions to Access Service Offerings (Cont'd.)

- 14.4 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. Inside moves or rearrangements may be undertaken.

(Reserved for future use.)

- 14.5 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. However, inside moves or rearrangements will not be permitted.

(Reserved for future use.)

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces15.1 Local Transport Interface Groups

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 15.1.1 following:

15.1.1 Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E & M signaling, will be reverse battery signaling.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.2 Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

15.1.3 Interface Group 3

Interface Group 3 provides group level analog transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alert tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.4 Interface Group 4

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

15.1.5 Interface Group 5

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz. (T)

The interface is provided with individual transmission path SF supervisor signaling.

15.1.6 Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 1.544

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.6 Interface Group 6 (Cont'd)

Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations are provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide a DS1 signal in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

15.1.7 Interface Group 7

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisor signaling.

15.1.8 Interface Group 8

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.8 Interface Group 8 (Cont'd)

96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations are provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide a DS1 signal in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

15.1.9 Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisor signaling.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.10 Interface Group 10

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format. The interface is provided with individual transmission path bit stream supervisor signaling.

15.1.11 Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanation of these codes, see the Glossary of Channel Interface Codes in 15.3 following.

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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company</u>		<u>Premises Interface Code</u>	<u>Feature Group</u>			
	<u>Switch</u>	<u>Supervisory Signaling</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
1	LO		2LS2	X			
	LO		2LS3	X			
	GO		2GS2	X			
	GO		2GS3	X			
	LO, GO,		2DX3	X			
	LO, GO,		4EA3-E	X			
	LO, GO		4EA3-M	X			
	LO, GO		6EB3-E	X			
	LO, GO		6EB3-M	X			
	RV, EA, EB, EC		2DX3		X	X	X
	RV, EA, EB, EC		4EA3-E		X	X	X
	RV, EA, EB, EC		4EA3-M		X	X	X
	RV, EA, EB, EC		6EB3-E		X	X	X
	RV, EA, EB, EC		6EB3-M		X	X	X
	EA, EB, EC		6EC3			X	X
	RV		2RV3-0		X	X	X
	RV		2RV3-T		X	X	X
	SS7		2N02			X	X
2	LO, GO		4SF2	X			
	LO, GO		4SF3	X			
	LO		4LS2	X			
	LO		4LS3	X			
	LO		6LS2	X			
	GO		4GS2	X			
	GO		4GS3	X			
	GO		6GS2	X			
	LO, GO		4DX2	X			
	LO, GO		4DX3	X			
	LO, GO		6EA2-E	X			
	LO, GO		6EA2-M	X			
	LO, GO		8EB2-E	X			
	LO, GO		8EB2-M	X			
	LO, GO		6EX2-B	X			



## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.11 Available Premises Interface Codes (Cont'd)

Interface Group (Cont'd)	Telephone Company		Premises Interface Code	Feature Group			
	Switch	Supervisory Signaling		A	B	C	D
2	RV, EA, EB, EC		4SF2	X	X	X	
	RV, EA, EB, EC		4SF3	X			
	RV, EA, EB, EC		4DX2	X	X	X	
	RV, EA, EB, EC		4DX3	X			
	RV, EA, EB, EC		6DX2			X	
	RV, EA, EB, EC		6EA2-E	X	X	X	
	RV, EA, EB, EC		6EA2-M	X	X	X	
	RV, EA, EB, EC		8EB2-E	X	X	X	
	RV, EA, EB, EC		8EB2-M	X	X	X	
	EA, EB, EC		8EC2-M		X	X	
	RV		4RV2-O	X	X	X	
	RV		4RV2-T	X	X	X	
	RV		4RV3-O	X	X		
	RV		4RV3-T	X	X		
	SS7		4N02			X	X
3	LO, GO		4AH5-B	X			
	RV, EA, EB, EC		4AH5-B		X	X	X
	SS7		4AH5-B			X	X
4	LO, GO		4AH6-C	X			
	RV, EA, EB, EC		4AH6-C		X	X	X
	SS7		4AH6-C			X	X
5	LO, GO		4AH6-D	X			
	RV, EA, EB, EC		4AH6-D		X	X	X
	SS7		4AH6-D			X	X
6	LO, GO		4DS9-15	X			
	LO, GO		4DS9-15L	X			
	RV, EA, EB, EC		4DS9-15		X	X	X
	RV, EA, EB, EC		4DS9-15L		X	X	X
	SS7		4DS9-15			X	X
7	LO, GO		4DS9-31	X			
	RV, EA, EB, EC		4DS9-31		X	X	X
	LO, GO		4DS9-31L	X			
	RV, EA, EB, EC		4DS9-31L		X	X	X
	SS7		4DS9-31			X	X

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)15.1 Local Transport Interface Groups (Cont'd)15.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
	SS7	4DS0-63			X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
	SS7	4DS6-44			X	X
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X
	SS7	4DS6-27			X	X

15.1.12 Supervisory Signaling

- For Interface Groups 1 and 2

DX Supervisory Signaling, E&M Type I Supervisory Signaling, E&M Type II Supervisory Signaling, or E&M Type III Supervisory Signaling

- For Interface Group 2

SF Supervisory Signaling, or Tandem Supervisory Signaling

- For Interface Groups 3 through 5  
Optional Supervisory Signaling Not Available
- For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., nondigital, interface to the transport termination.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service15.2.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Feature Groups. The specific applications in terms of the Feature Groups and Interface Groups with which the Feature Group Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C) and 6.2.4(C) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  2.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss of 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	32 dBrnC0
51 to 100	34 dBrnC0
101 to 200	37 dBrnC0
201 to 400	40 dBrnC0
401 to 1000	42 dBrnC0

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications (Cont'd)(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBmCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
Less than 50	32 dBrnC0	35 dBrnC0
51 to 100	33 dBrnC0	37 dBrnC0
101 to 200	35 dBrnC0	40 dBrnC0
201 to 400	37 dBrnC0	43 dBrnC0
401 to 1000	39 dBrnC0	45 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

\*For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
• For FGB access	8 dB	4 dB
• For FGC access (Effective 4-Wire trans- mission path at end office)	16 dB	11 dB
• For FGC access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications (Cont'd)

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
Less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

\*For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.



## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C) and 6.2.4(C) preceding. Following are descriptions of each.

(A) Data Transmission Parameters Type DA(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

	<u>604 to 2804 Hz</u>	
less than 50 route miles		500 microseconds
equal to or greater than		
50 route miles		900 microseconds

	<u>1004 to 2404 Hz</u>	
less than 50 route miles		200 microseconds
equal to or greater than		
50 route miles		400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.2 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA (Cont'd)(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2804 Hz</u>	
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds
<u>1004 to 2404 Hz</u>	
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.2 Transmission Specifications Switched Access Service (Cont'd)15.2.2 Data Transmission Parameters (Cont'd)(B) Data Transmission Parameters Type DB (Cont'd)(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3)  
Intermodulation Distortion products are equal to or  
greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is  
less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2  
Hz.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct-Trunked Transport. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies an NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

NT = Metallic Channel with a Predefined Technical  
Specification Package (1)  
2 = Number of physical wires at customer premises  
DC = Facility interface for direct current or voltage  
8 = Variable impedance level  
3 = Metallic facilities (DC continuity) for direct  
current/low frequency control signals or slow speed data  
(30 baud)

15.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
CT -		Centrex Tie Trunk Termination
DA -		data stream in VF frequency band at customer's end user's point of termination
DB -		data stream in VF frequency band at customer's point of termination
	- 10	VF for TG1 and TG2
	- 43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel
	- 3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination.
DS -		digital hierarchy interface
- 15		1.544 Mbps (DS1) format per PUB 41451 plus D4
- 15E		8-bit PCM encoded in one 64 kbps of the DS1 signal
- 15F		8-bit PCM encoded in two 64 kbps of the DS1 signal
- 15G		8-bit PCM encoded in three 64 kbps of the DS1 signal
- 15H		14/11-bit PCM encoded in six 64 kbps of the DS1 signal
- 15J		1.544 Mbps format per PUB 41451
- 15K		1.544 Mbps format per PUB 41451 plus extended framing format
- 15L		1.544 Mbps (DS1) with SF signaling
- 27		274.176 Mbps (DS4)
- 27L		274.176 Mbps (DS4) with SF signaling
- 31		3.152 Mbps (DS1C)
- 31L		3.152 Mbps (DS1C) with SF signaling
- 44		44.736 Mbps (DS3)
- 44L		44.736 Mbps (DS3) with SF signaling
- 63		6.312 Mbps (DS2)
- 63L		6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
- 24		2.4 kbps
- 48		4.8 kbps
- 56		56.0 kbps
- 96		9.6 kbps
- A		1.544 Mbps format per PUB 41451
- B		1.544 Mbps format per PUB 41451 plus D4
- C		1.544 Mbps format per PUB 41451 plus extended framing format
DX -		duplex signaling interface at customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		ground start loop signaling - open end function by customer or customer's end user
GS -		ground start loop signaling - closed end function by customer or customer's end user
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only
PG -		program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 200 to 3500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8000 Hz

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
PR		protective relaying*
RV -	0	reverse battery signaling, one way operation originate by customer
-	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF -		single frequency signaling with VF band at either customer POT or customer's end user POT
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes
TV -		television interface
-	1	combined (diplexed) video and one audio signal
-	2	combined (diplexed) video and two audio signals
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
-	15	video plus one (or two) audio 15 kHz signal(s)

\*Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

+For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.



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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1

15.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for:

<u>Service Designator Code</u>	<u>Network Channel Code</u>	<u>Class of Service Code</u>	<u>Bit Rate</u>
MTC	MQ	XDMCX	
MT1	NT	XDN1X	
MT2	NU	XDN2X	
MT3	NV	XDN3X	
TGC	NQ	XDNCX	
TG1	NW	XDN4X	
TG2	NY	XDN5X	
VGC	LQ	XDVDX	
VGW	SE	XDV1X	
VG1	LB	XDV1X	
VG2	LC	XDV2X	

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.4 Service Designator/Network Channel Code Conversion Table  
(Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>	<u>Class of Service Code</u>	<u>Bit Rate</u>
VG3	LD	XDV3X	
VG4	LE	XDV4X	
VG5	LF	XDV5X	
VG6	LG	XDV6X	
VG7	LH	XDV7X	
VG8	LJ	XDV8X	
VG9	LK	XDV9X	
VG10	LN	XDVAX	
VG11	LP	XDV BX	
VG12	LR	XDV CX	
APC	PQ	XDPCM/D	
AP1	PE	XD P1M/D	200-3500 Hz
AP2	PF	XD P2M/D	100-5000 Hz
AP3	PJ	XD P3M/D	50-8000 Hz
AP4	PK	XD P4M/D	50-15000 Hz
TV1	TV	XD T1M/D	
TV2	TW	XD T2M/D	
DA1	XA	XDD1X	2.4 kbps
DA2	XB	XDD2X	4.8 kbps
DA3	XG	XDD3X	9.6 kbps
DA4	XH	XDD4X	56.0 kbps
HC1	HC	XDH1X	1.544 Mbps

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

(A) MetallicCompatible CIs

2DC8-1	2DC8-2
2DC8-3	2DC8-3
4DS8-*	2DC8-1
4DS8-*	2DC8-2

(B) Telegraph GradeCompatible CIs

2DB2-10	10IA8 2TT2-2 4TT2-2
2DB2-43+	10IA8 2TT2-2 2TT2-6 4TT2-2
2TT2-2	2TT2-2
2TT2-3	2TT2-2 4TT2-2
2TT2-6	2TT2-6 4TT2-6

Compatible CIs

4DB2-10	10IA8 2TT2-2 4TT2-2
4DB2-43+	10IA8 2TT2-6 4TT2-2
4DS8-*	10IA8 2TT2-2 2TT2-6 4TT2-2 4TT2-6
4TT2-2	4TT2-2
4TT2-6	2TT2-6

\* See 15.3.3 preceding for explanation.

+ Supplemental Channel Assignment information required.

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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8*		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E		2LS3	2LS2	2LA2
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2GO3	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
			4LS	2NO3	2NO2
					2PR2
	6EB3-E	2LO2	2LS2		
	6EB3-M				
	8EB2-E		2LS3	2TF3	2TF2
	8EB2-M				
	8EC2	2LO3	2LS2		
	9DY2		2LS3		
	9DY3				
	9EA2				
	9EA3				

\* See 15.3.3 preceding for explanation.

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15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)

15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

15.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

Compatible CIs

4AB2	2AC2
	4AB2
	4AC2
	4SF2
4AB3	2AC2
	4AC2
	4SF2
4AC2	2AC2
	4AC2

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
		4DS8-*	2AC2	4DS8-*	4DG2
			2DA2		4LR2
			4DY2		4LS2
			2GO2		4NO2
4DA2	4DA2		2G03		4PR2
			2GS2		4RV2-T
4DB2	2DA2		2GS3		4SF2
	2NO2		2LA2		4SF3
	2PR2		2LB2		4TF2
	4DA2		2LC2		6DA2
	4DB2		2LO2		6DY2
	4NO2		2LO3		6DY3
	4PR2		2LR2		6EA2-E
	6DA2		2LS2		6EA2-M
			2LS3		6EB2-E
4DD3	2DE2		2NO2		6EB2-M
	4DE2		2PR2		6GS2
			2RV2-T		6LS2
			2TF2		8EB2-E
			4AC2		8EB2-M
			4DA2		9DY2
			4DE2		9DY3
			4DX2		9EA2
			4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		

\* See 15.3.3 preceding for explanation.

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DYU2		2LB2		9DY2
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-E	2DY2	4EA3-E	2DY2	4GO2	2GO2
	4DY2		4DY2		2GO3
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E		
	6EB2-M		6EA2-M	4G03	2GO2
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		8EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3		
	4DY2		9EA2		
	4EA2-E				
	4EA2-M		9EA3	4GS	2GS
	4SF2				2LS
	6DY2				
	6DY3				4GS
	6EB2-E				4LS
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				



## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4L02	2LS2	4LS3	2LA2	4SF2	2L03T
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
			4SF2		4AC2
4LO3	2LS2				4DY2
	2LS3	4NO2	2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
	6LS2		4DA2		6DY2
			4DE2		6DY3
4LR2	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-O	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
		4SF2	2AC2		2GS3
4LS	2GS		2DY2		2LA2
	2LS		2GS2		2LB2
	4GS		2GS3		2LC2
	4LS		2LA2		2LO3
			2LB2		2LR2
4LS2	2LA2		2LC2		
	2LB2				
	2LC2				
	2LO2				
	2LO3				

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2		2DY2		6DY3
	4EA2-E	6DX2	4DY2	6EA2-E	2AC2
	4EA2-M		4EA2-E		
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2	6DY2	4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
4TF2			2DY2		4SF3
	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
6EA2-M	2AC2		9DY2		6EA2-M
	2DY2		9DY3		8EB2-E
	2LA2				8EB2-M
	2LB2	6EB2-E	2DY2		9DY2
	2LC2		4DY2		9DY3
	2L03		4SF2		9EA2
	2LS2		6DY2		9EA3
	2LS3		6DY3		
	2RV2-T		6EB2-E	6EX2-A	2GS2
	4AC2		6EB2-M		2GS3
	4DY2		9DY2		2LS2
	4EA2-E		9DY3		2LS3
	4EA2-M				4GS2
	4LS2	6EB2-M	2DY2		4LS2
	4RV2-T		4DY2		4SF2
	4SF2		4SF2		6GS2
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-B	2G03	8BE2-E	2AC2	8EB2-M	2AC2
	2LA2		2DY2		2DY2
	2LB2		2LA2		2LA2
	2LC2		2LB2		2LB2
	2LO2		2LC2		2LC2
	2LO3		2LO3		2LO3
	2LR2		2LS2		2LS2
	4LR2		2LS3		2LS3
	4SF2		2RV2-T		2RV2-T
			4AC2		4AC2
6G02	2G02		4DY2		4DY2
	2GS2		4LS2		4LS2
	2GS3		4RV2-T		4RV2-T
	4GS2		4SF2		4SF2
	4SF2		4SF3		4SF3
	6GS2		6DY2		6DY2
6L02			6DY3		6DY3
	2LS2		6EB2-E		6EB2-E
	2LS3		6EB2-M		6EB2-M
	4LS2		6LS2		6LS2
	4SF2		8EB2-E		8EB2-M
	6LS2		8EB2-M		9DY2
6LS2			9DY2		9DY3
	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(D) Program AudioCompatible CIs2PG2-1    2PG1-1  
          2PG2-12PG2-3    2PG1-3  
          2PG2-32PG2-5    2PG1-5  
          2PG2-52PG2-8    2PG1-8  
          2PG2-8Compatible CIs4DS8-15E    2PG1-3  
              2PG2-34DS8-15F    2PG1-5  
              2PG2-54DS8-15G    2PG1-8  
              2PG2-84DA8-15H    2PG1-1  
              2PG2-1

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(E) VideoCompatible CIsCompatible CIs2TV6-1    4TV6-15  
          4TV7-154TV7-5    4TV6-5  
          4TV7-52TV6-2    6TV6-15  
          6TV7-154TV7-15    4TV6-15  
          4TV7-152TV7-1    4TV6-15  
          4TV7-156TV6-5    6TV6-5  
          6TV7-52TV7-2    6TV6-15  
          6TV7-156TV6-15    6TV6-15  
          6TV7-154TV6-5    4TV6-5  
          4TV7-56TV7-5    6TV6-5  
          6TV7-54TV6-15    4TV6-15  
          4TV7-156TV7-15    6TV6-15  
          6TV7-15

## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(F) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15+	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-24				
	6DU5-48	4DU8-56	4DU5-56	6DU5-96	6DU5-96
	6DU5-96				

+Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.



## ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces  
(Cont'd)15.3 Special Access Channel Interface and Network Channel Codes (Cont'd)15.3.5 Compatible Channel Interfaces (Cont'd)(G) High CapacityCompatible CIs

4DS0-63	4DS0-63 4DU8-A,B or C 6DU8-A,B or C
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4DS6-27	4DS6-27 4DU8-A,B or C 6DU8-A,B or C
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4DS6-44	4DS6-44 4DU8-A,B or C 6DU8-A,B or C
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4DS8-15	4DS8-15+ 4DU8-B 6DU8-8
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Compatible CIs

4DS8-15J	4DU8-A 6DU8-A
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4DS8-15K	4DU8-B 4DU8-C 6DU8-B 6DU8-C
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4DS8-31	4DS8-31 4DU8-A,B or C 6DU8-A,B or C
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4DU8-A,B or C	4DU8-A,B or C
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+Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.